

Board of Education Regular Meeting  
Tuesday, September 13, 2022 6:30 PM  
HPC Elementary - Clarks  
205 W. Pearl St.  
Clarks, NE 68628

1. **Call Meeting to Order at \_\_\_\_\_**
  - 1.1. **Roll Call**
  - 1.2. **Recognize Nebraska Open Meetings Act Posted on the Wall**
2. **Consider and Approve Prior Meeting Minutes**

High Plains Community Schools  
Board of Education Meeting  
August 8, 2022

M-Motion by, S-Seconded by, F-For, A-Against, Ab-Absent, As-Abstain, Mc-Motion Carried.

It is noted that the Nebraska Open Meeting Act was on display.

The regular monthly meeting of the High Plains Community Schools Board of Education was held on August 8, 2022, in the boardroom in Clarks. The meeting was called to order at 6:30 p.m. by President Paul VanHousen. Present were Terry Carlstrom, Paul VanHousen, Nate Spurling, Erin Meyer, Shane Van Pelt, Principal Helgoth, Principal Fisher, and Superintendent Beran. There were no visitors.

M-Urkoski, S-Meyer to approve the minutes of the regular meeting held on July 11, 2022 and special board meeting on August 1, 2022. Mc 5-0. (As-Van Pelt)

M-Meyer, S-Van Pelt to approve the HVAC repair/install bid for the band room from Hans Service, LLC. Mc 6-0.

M-Spurling, S-Carlstrom to approve the Rasmussen bid for 3 years for boiler maintenance contract. Mc 6-0.

M-Meyer, S-Spurling to table the Polk tree cleanup/removal bids till the next meeting for more information. Mc 6-0.

M-Meyer, S-Spurling to approve the Harmony Nursery bid for landscaping in Polk at the East Campus. Mc 6-0.

M-Spurling, S-Urkoski to table the vehicle replacement schedule to the next meeting for more information. Mc 6-0.

Items on the Supt. Beran's report: Important dates; Academic success; District culture; Staff well-being; Facilities & Transportation.

Items on Principal Fisher's report: Professional development; MTSS/SAT; Online registration; Teacher evaluation model; Back-to-School night.

Items on Principal Helgoth's report: Summer Jumpstart update; Online registration sessions; Back-to-school night.

Items on A.D. Wood's report: Summer weights; First day of Fall sports practice; Sports physicals; Uniform updates; Wet Bulb Globe Thermometer; Sportsmanship speaker.

M-Spurling, S-Carlstrom to approve Board policy 3039 – Threat Assessment remove crisis team and add psychological first aid team; Board policy 3040 – School Safety to remove crisis team and add psychological first aid team; Board policy 4031 - Teacher Evaluation with no changes; Board policy 5001 - Compulsory Attendance with no changes; Board policy 5035 – Student Discipline with no changes; Teacher Evaluation Tool with updated changes.

The board reviewed the Lunch and Activities accounts.

M-Meyer, S-Spurling to pay the general fund bills as presented. Mc 6-0.

M-Urkoski, S-Spurling to adjourn at 7:45 p.m. Mc 6-0.

Respectfully submitted,

Shane Van Pelt  
Secretary

Next board meeting is scheduled for Thursday, August 25, 2022 at 6:30 p.m. in Clarks in the board room. September board meeting is scheduled for Tuesday, September 13, 2022 in Clarks in the board room with the Budget hearing, Tax Request hearing and regular board meeting.

High Plains Community Schools  
Special Meeting  
August 25, 2022

M-Motion by, S-Seconded by, F-For, A-Against, Ab-Absent, As-Abstain, Mc-Motion Carried.

It is noted that the Nebraska Open Meeting Act was on display.

A special meeting of the High Plains Community Schools Board of Education was held on August 25, 2022 at Clarks.

The meeting was called to order at 6:30 p.m. by President Paul VanHousen. Present were Terry Carlstrom, Kraig Urkoski, Paul VanHousen, Nate Spurling, Shane Van Pelt, Erin Meyer and Superintendent Beran. There was 1 visitor.

Roll Call was taken.

Items on Superintendent Beran's report: Important dates; Academic success; District culture; Staff well-being; Facilities update.

Items discussed but requiring no action were: LB 644, Landscaping concerns.

M-Urkoski, S-Meyer to approve the updated Safe Return & Continuity Plan. Mc 6-0.

M-Meyer, S-Van Pelt to approve Board Policy 4059 – Suicide Training. Mc 6-0.

M-Spurling, S-Urkoski to approve the door entry upgrade bid from Diode Technologies with the upgraded cable for \$25, 670.31. Mc 6-0.

M-Meyer, S-Carlstrom to adopt the flexible spending account with Health Equity for the 2022/23 school year. Mc 6-0.

The board reviewed the end of year Activities and Lunch Account.

M-Meyer, S-Urkoski to pay the end of the fiscal year general fund bills as presented. Mc 6-0.

M-Spurling, S-Van Pelt to adjourn at 7:42 p.m. Mc 6-0.

Respectfully submitted,

Shane Van Pelt  
Board Secretary

This meeting was advertised in the newspaper. The next board meeting is scheduled for Tuesday, September 13 at 6:30p.m. in Clarks.

- 3. Recognition of Visitors/Public Comment (Must stand, state name & full address, and organization you represent, if any)**

## **PUBLIC PARTICIPATION**

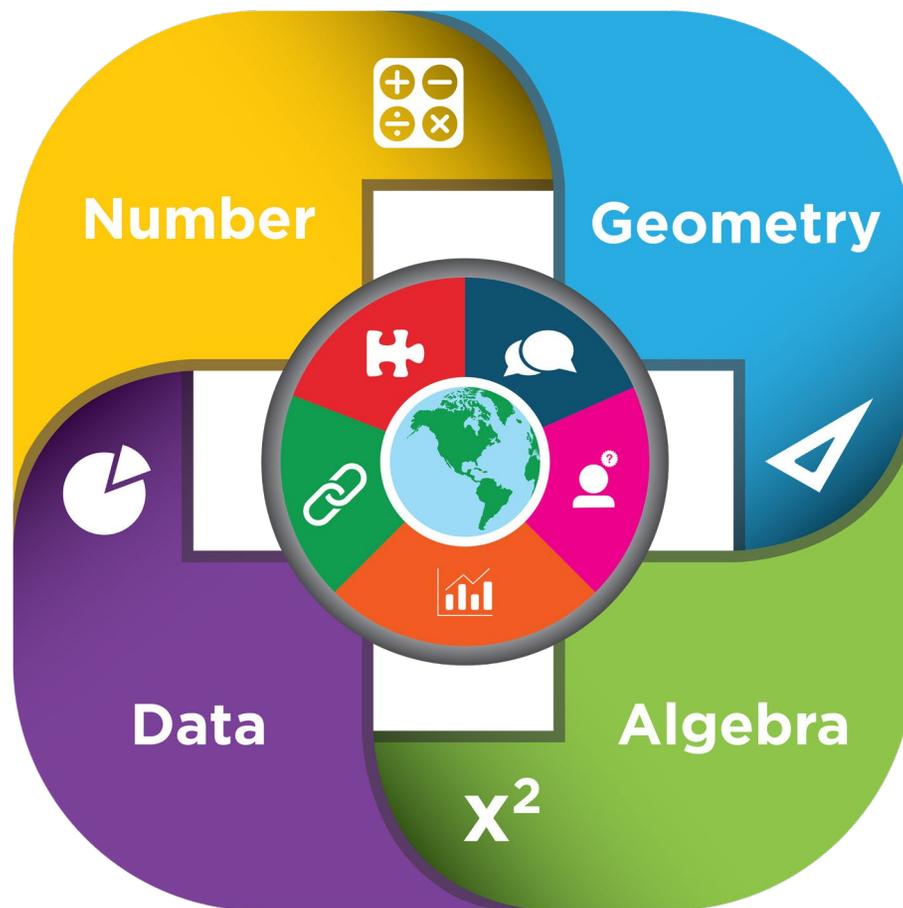
INSTRUCTIONS FOR MEMBERS OF THE PUBLIC WHO WISH TO SPEAK:  
This is the portion of the meeting when members of the public may speak to the board about matters of public concern.

- **Getting Started:** When you have been recognized, please stand, state your name, full address, and organization you represent, if any.
- **Time Limit:** The board will generally allow a total of 30 minutes for the presentation of all public comments. Individuals may speak only one time, and must limit comments to around 5 minutes. If there are more than 6 individuals who wish to address the board, the 30 minutes will be divided equally between the number of speakers. These time limits may be changed by a majority vote of the board members in attendance to extend the time for a specific item or speaker.
- **Personnel or Student Topic:** If you are planning to speak about a personnel or a student matter involving an individual, please understand that the district has a complaint policy and/or procedures to resolve such complaints and concerns. The Board requests that you follow the policy and procedures before addressing these matters with the Board. Board members will generally not respond to any questions you ask or comments about individual staff members or students.
- **General Rules:** This is a public meeting for the conduct of business. Comments from the audience while others are speaking will not be tolerated. Lewd, obscene, profane, slanderous, threatening and hostile conduct or statements and fighting words (words whose mere utterance entails a call to violence) will not be tolerated.
- **No Action by the Board:** The board will not act on any matter unless it is on the published agenda.

Adopted- 11/14/16

Revised- 11/8/21

**4. Consider and Approve Nebraska Department of Education new Math Standards**



## Nebraska's College and Career Ready Standards for Mathematics



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## Matthew L. Blomstedt, Ph.D., Commissioner of Education Nebraska

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## Acknowledgements

The standards within this document were developed by a team of Nebraska educators. These educators represent the diversity of students served by Nebraska's K-12 schools, a variety of content and grade-level expertise, and geographic locations across the state. In addition, a panel of subject matter experts reviewed and provided guidance on the recommended revisions. The standards were developed during the 2021-2022 academic year and approved by the Nebraska State Board of Education on September 2, 2022. The Nebraska Department of Education would like to express warm gratitude to these educators for their knowledge, expertise, and dedication to Nebraska's K-12 students.

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## Introduction

College and career readiness for Nebraska’s K-12 students requires content area standards that are clearly defined and increasingly rigorous across grade levels. The standards are designed to ensure all students have access to grade-level mathematics content centered on deep learning of concepts while actively building new knowledge from their experiences. The revised mathematics standards encompass a wide range of essential skills across the strands of Number, Algebra, Geometry, and Data. The standards, both individually and as an integrated whole, describe not only expectations for college and career readiness, but the 21st century mathematical literacies for critical and innovative thinking and problem solving. The progression of skills within each strand are research and evidence-based and designed to prepare Nebraska’s students for postsecondary and workforce demands.

## Content Area Standards Overview

Nebraska Revised Statute 79-760.01 requires the State Board of Education to adopt measurable academic content standards for the areas of reading, writing, mathematics, science, and social studies. Standards describe grade-level expectations for given content areas and provide a framework upon which Nebraska districts develop, establish, and implement curriculum. For effective teaching and learning to occur, the content area standards should drive local decisions related to instructional materials, resources, and interim, formative, and summative assessments.

The Nebraska Department of Education has identified quality criteria in the development of content area standards. These criteria ensure that standards are grounded in a strong research base of human cognition, motivation, and teaching and learning and describe essential knowledge and skills for college, career, and civic readiness. The revised mathematics standards, written by teams of Nebraska educators and reviewed by local and national experts, were developed with the following indicators of quality:

**Measurable.** Standards provide benchmarks against which student progress toward learning goals can be measured.

**Appropriately challenging.** Standards must build in complexity so that by the end of grade 12, students are prepared for postsecondary education and the workforce.

**Connected.** Student learning is most effective when it connects knowledge and skills to related topics and authentic applications.

**Clearly worded.** Content area standards must effectively communicate what students should know and be able to do.

**Scaffolded.** Indicators in the Nebraska content area standards scaffold student learning by sequencing connected knowledge and skills across grades so that students build and deepen understanding and ability over time.

**Specific.** Specificity assures that the language used in standards and indicators is sufficiently detailed to be accurately interpreted by educators.

## Mathematics Standards Design

Nebraska’s College and Career Ready Standards for Mathematics reflect the tiered structure common across all Nebraska content area standards. Grade-level standards include broad, overarching content-based statements that describe the basic cognitive or affective expectations of student learning. They also reflect, across all grade levels, the long-term goals for learning associated with college and career readiness. Indicators further describe what students must know and be able to do to meet the standard as well as provide guidance related to classroom instruction and assessment. In addition to standards and indicators, some of the standards include examples. The “e.g.” statements, where appropriate, provide guidance relative to topics that may be included in a locally determined curriculum.

### The structure of Nebraska’s College and Career Ready Standards for Mathematics includes:

**K-12 Content Strands.** The strands are broad, general statements that are not grade-level specific. They reflect major topics in mathematics (number, algebra, geometry, and data) and the five mathematical processes.

**Grade-Level Standards.** The grade-level standards identify what students should know and be able to do by the end of each grade level or grade band. The standards are organized within K-12 Content Strands. The grade-level standards include a statement that describes the expectations for proficiency relative to the major work of the grade.

**Indicators.** The indicators provide additional specificity to distinguish expectations between grade levels. They are considered an integral part of the standard to be taught and assessed.

For grades K-8, the standards and indicators are written at grade level and are organized by four content strands: Number, Algebra, Geometry, and Data. The High School Standards and Advanced Topics Standards are organized by four content strands: Number, Algebra, Geometry, and Data.

**Coding:** The standards are organized using a coding system that includes the content area, the grade level, an abbreviation for the content strand, and the number within the strand. Lowercase letters represent indicators for some of the standards. (NOTE: not all standards include indicators.)

-----Example: MA.K.N.1.a-----

MA = Content Area (Math)

K = Kindergarten

N = Content Strand (Number)

1 = Standard

a = indicator

**The structure of Nebraska’s College and Career Ready Standards for Mathematics includes:**

<b>Content Strand</b>	<b>Description</b>
Number (N)	Students will solve problems and reason with number concepts using multiple representations, make connections within math and across disciplines, and communicate their ideas.
Ratios and Proportions (R) <sup>1</sup>	Students will understand ratio concepts and use ratio reasoning to solve problems.
Algebra (A)	Students will solve problems and reason with algebra using multiple representations, make connections within math and across disciplines, and communicate their ideas.
Geometry (G)	Students will solve problems and reason with geometry using multiple representations, make connections within math and across disciplines, and communicate their ideas.
Data (D)	Students will solve problems and reason with data/probability using multiple representations, make connections within math and across disciplines, and communicate their ideas.

<sup>1</sup> Ratios and Proportions is a new content strand found only in Grades 6 and 7.

## **Grade Level Content Focus**

In addition to the standards and indicators, this document includes information about content focus at the beginning of each grade level. Based on research and the progression of the disciplines, the information provides a snapshot of the “major work of the grade.” This guidance leverages the structure and emphases of college- and career-ready mathematics standards. At every grade level, instruction should emphasize the development of the mathematical processes as the vehicle for content mastery.

## Nebraska Mathematical Processes

**Introduction.** The Nebraska Mathematical Processes reflect overarching processes that students should master as they work towards college and career readiness. As described by the National Research Council (2001), mathematical processes are integral to all mathematics teaching and learning. The Nebraska Mathematical Processes reflect the interaction of skills necessary for success in math coursework as well as the ability to apply math knowledge and processes within authentic contexts. The processes highlight the applied nature of math within the workforce and clarify the expectations held for the use of mathematics in and outside of the classroom. Additionally, the Fordham Institute (2018) states that high quality standards for mathematics “integrate and promote the ‘math processes’ or mathematical habits of mind that every student should possess.” Mathematical processes activate the learning process while increasing the likelihood that students will become mathematically proficient (Van de Walle et al., 2018).

**To develop essential mathematical habits of mind, mathematically proficient students:**



**Make sense of problems and persevere in solving them.** Students make sense of problems and look for entry points to plan solution pathways. A variety of tools including, but not limited to, mental math, estimation, concrete and visual models, and appropriate technology may be selected to support problem solving. Students form conjectures or inferences based on patterns or sets of examples and nonexamples and monitor their progress. Perseverance includes working without knowing if a plan will succeed, trying other plans if an initial plan does not work, and checking if a solution is reasonable. **(PROBLEM SOLVING)**



**Reason quantitatively and abstractly and consider the reasoning of others.** Students make sense of quantities and their relationships using quantitative and abstract reasoning. Quantitative reasoning uses the properties of numbers, operations, and geometric objects. Abstract reasoning includes making sense of and manipulating representations in terms of the original context. Students can represent a problem using numbers and mathematical symbols, solve the problem and then make sense of the solution in context of the original situation. Students can analyze their own reasoning and the reasoning of others by comparing different approaches, recognizing correctness and efficiency, and finding counterexamples. **(REASONING)**



**Create and use representations to organize, record, and communicate mathematical ideas.** Students will understand that representations of mathematical ideas – physical, visual, symbolic, contextual, and verbal – are an essential part of learning, doing, and communicating mathematics. Students create, use, and evaluate the effectiveness of representations to clearly communicate mathematical ideas. **(REPRESENTATIONS)**



**Analyze mathematical relationships to connect mathematical ideas.** Students routinely interpret their mathematical results in the context of the situation and reflect on whether the results make sense. By modeling mathematics in authentic contexts, students make connections among and between different areas of mathematics and other disciplines. Students seek out and make connections among different approaches and representations, including those of other students. **(CONNECTIONS)**



**Explain and justify mathematical ideas using precise mathematical language in written or oral communication.** Students will communicate their solutions with displays, explanations, and justifications. Students make sense of the mathematics by asking helpful questions that clarify or deepen understanding. Students will use precise mathematical language when explaining and justifying their work in written or oral form. **(COMMUNICATION)**



# Kindergarten Standards

## Kindergarten Content Focus

During Kindergarten, instruction should emphasize the development of the mathematical processes as the vehicle for mastering the grade-level content. Instruction should focus on these critical areas:

- Using numbers to represent quantities and to solve quantitative problems, such as quickly recognizing the number in a small set, counting objects in a set, producing sets of given sizes, and comparing and ordering sets or numerals.
- Working with numbers 11-19 to gain foundations for place value.
- Understanding addition as putting together and adding to and understanding subtraction as taking apart and taking from.
- Identifying, naming, and describing two- and three-dimensional shapes that are presented in a variety of ways.

## Mathematical Processes

To develop essential mathematical habits of mind, mathematically proficient students:

<p>Make sense of problems and persevere in <b>solving</b> them.</p> 	<p><b>Reason</b> quantitatively and abstractly and consider the reasoning of others.</p> 	<p>Create and use <b>representations</b> to organize, record, and communicate mathematical ideas.</p> 	<p>Analyze mathematical relationships to <b>connect</b> mathematical ideas.</p> 	<p>Explain and justify mathematical ideas using precise mathematical language in written or oral <b>communication</b>.</p> 
<b>PROBLEM SOLVING</b>	<b>REASONING</b>	<b>REPRESENTATIONS</b>	<b>CONNECTIONS</b>	<b>COMMUNICATION</b>

**NUMBER: Students will solve problems and reason with number concepts using multiple representations, make connections within math and across disciplines, and communicate their ideas.**

**K.N.1 Subitizing: Students will quantify briefly shown collections and verbally label the arrangements without counting.**

K.N.1.a Without counting, recognize and verbally label arrangements for briefly shown collections up to 10 (e.g., “I saw 5.” “How did you know?” “I saw 3 and 2, that is 5.”)

**K.N.2 Counting and Cardinality: Students will understand the relationship between numbers and quantities.**

K.N.2.a Use one-to-one correspondence when counting objects to show the relationship between numbers and quantities and understand the last number counted is a direct representation of the total objects in a given set.

K.N.2.b Understand that each successive number name refers to a quantity that is one larger.

K.N.2.c Count out the number of objects given a number from 1 to 20.

K.N.2.d Count up to 20 objects arranged in a line, a rectangular array, or a circle, and count up to 10 objects in a scattered configuration.

K.N.2.e Count verbally forward and backward from any given number within 20.

K.N.2.f Count verbally in sequential order by ones and by tens to 100, making accurate decade transitions (e.g., 89 to 90).

K.N.2.g Write and name numbers 0 to 20. Represent a number of objects with a written numeral 0 to 20.

K.N.2.h Compare the number of objects in two groups, up to 20, using the words fewer than, more than, the same as.

**K.N.3 Base Ten: Students will work with numbers 11 to 19 to gain a foundation for place value.**

K.N.3.a Compose and decompose numbers from 11 to 19 into a group of ten ones and some more ones using a model, drawing, or equation.

**K.N.4 Number and Algebraic Relationships: Students will understand and demonstrate the meaning of addition and subtraction.**

K.N.4.a Represent and explain addition and subtraction as part-whole relationships, with addition as *putting together* and/or *adding to* and subtraction as *taking apart* and/or *taking from*, using objects, drawings, numbers, and equations.

K.N.4.b Compose and decompose numbers less than or equal to 10 into pairs in more than one way using verbal explanations, objects, or drawings.

K.N.4.c For any number from 1 to 9, find the number that makes 10 when added to the given number, sharing the answer with a model, drawing, or equation.

K.N.4.d Efficiently, flexibly, and accurately add and subtract within 5.

K.N.4.e Solve authentic problems that involve addition and subtraction within 10 (e.g., by using objects, drawings, and equations to represent the problem).

**ALGEBRA: Students will solve problems and reason with algebra using multiple representations, make connections within math and across disciplines, and communicate their ideas.**

*SEE NUMBER AND ALGEBRAIC RELATIONSHIPS IN NUMBER (K.N.4)*

**GEOMETRY: Students will solve problems and reason with geometry using multiple representations, make connections within math and across disciplines, and communicate their ideas.**

**K.G.1 Shapes and Their Attributes: Students will identify and represent the attributes of two-dimensional shapes and three-dimensional solids.**

K.G.1.a Identify and name two-dimensional shapes including circles, triangles, squares, and rectangles regardless of orientation or size.

K.G.1.b Identify and name three-dimensional shapes including spheres, cubes, cylinders, and cones regardless of orientation or size.

K.G.1.c Describe the relative positions of shapes in relation to other objects or shapes using terms such as above, below, in front of, behind, and next to.

K.G.1.d Create shapes using given materials and describe one or more of the attributes such as number of sides/corners.

K.G.1.e Combine simple shapes to compose larger shapes.

**K.G.2 Measurement: Students will describe and compare measurable attributes.**

K.G.2.a Describe measurable attributes of authentic objects including length, capacity, and weight.

K.G.2.b Directly compare two objects with a measurable attribute in common to describe which object is longer/shorter, heavier/lighter, and has more/less-capacity.

**K.G.3 Time and Money: Students will know coin names and values and tell time to the hour.**

K.G.3.a Identify the name and value of pennies, nickels, and dimes.

K.G.3.b Identify the parts of digital and analog clocks. Tell and write time to the hour using digital clocks and analog clocks using only the hour hand.

**DATA: Students will solve problems and reason with data/probability using multiple representations, make connections within math and across disciplines, and communicate their ideas.**

**K.D.1 Classification: Students will sort and classify objects using one or more attributes.**

K.D.1.a Identify, sort, and classify objects by size, shape, color, and other attributes.

K.D.1.b Identify objects that do not belong to a particular group and explain the reasoning used.

## Grade 1 Standards

### Grade 1 Content Focus

During Grade 1, instruction should emphasize the development of the mathematical processes as the vehicle for mastering the grade-level content. Instruction should focus on these critical areas:

- Extending the counting sequence and strategies for solving quantitative questions.
- Representing and solving problems involving addition and subtraction to include work with equations and the properties of the operations.
- Developing understandings of addition and subtraction strategies for basic addition facts and related subtraction facts.
- Developing an understanding of whole number relationships, including grouping in tens and ones.
- Measuring lengths indirectly and by iterating length units.

## Mathematical Processes

To develop essential mathematical habits of mind, mathematically proficient students:

Make sense of problems and persevere in **solving** them.



**PROBLEM SOLVING**

**Reason** quantitatively and abstractly and consider the reasoning of others.



**REASONING**

Create and use **representations** to organize, record, and communicate mathematical ideas.



**REPRESENTATIONS**

Analyze mathematical relationships to **connect** mathematical ideas.



**CONNECTIONS**

Explain and justify mathematical ideas using precise mathematical language in written or oral **communication**.



**COMMUNICATION**

**NUMBER: Students will solve problems and reason with number concepts using multiple representations, make connections within math and across disciplines, and communicate their ideas.**

**1.N.1 Subitizing: Students will quantify briefly shown collections and verbally label the arrangements without counting.**

1.N.1.a Without counting, recognize and verbally label arrangements for briefly shown collections up to 20 (e.g., "I saw 16." "How did you know?" "I saw 10 and 6, that is 16").

**1.N.2 Counting and Cardinality: Students will understand the relationship between numbers and quantities to extend the counting sequence.**

1.N.2.a Count verbally by ones and tens within 120 starting at any given number.

1.N.2.b Count verbally by ones and tens within 120 starting at any given number. Understand that the given number is a direct representation of the total objects in a given set and counting on each successive number represents adding an additional object, and counting back each preceding number represents removing an object.

1.N.2.c Write numerals to match a representation of a given set of objects for numbers up to 120.

1.N.2.d Understand patterns of skip counting by 2s, 5s, and 10s.

**1.N.3 Base Ten: Students will represent and compare two-digit numbers to gain foundations for place value.**

1.N.3.a Understand 10 as a bundle, collection, or (more abstractly) composition of ten ones and that the two digits of a two-digit number represent a composition of some tens and some ones.

1.N.3.b Compare two, two-digit numbers using words greater than, less than, equal to, and symbols  $<$ ,  $>$ ,  $=$ . Justify comparisons based on the number of tens and ones.

**1.N.4 Number and Operations: Students will compute using addition and subtraction.**

1.N.4.a Add and subtract within 20, using flexible strategies such as counting on or counting back, making ten, using ten, and using doubles and near doubles.

1.N.4.b Efficiently, flexibly, and accurately add and subtract within 10.

1.N.4.c Find the difference between two numbers that are multiples of 10, ranging from 10 to 90 using concrete models, drawings, or strategies, and write the corresponding equation.

1.N.4.d Mentally find 10 more or 10 less than a two-digit number without having to count and explain the reasoning used.

1.N.4.e Add within 100, including adding a two-digit number and a one-digit number, adding a two-digit number and a multiple of ten, using concrete models, drawings, and strategies that reflect an understanding of place value, the relationship between addition and subtraction, and the properties of operations. Relate the strategy to a written method and explain the reasoning used to solve.

1.N.4.f Understand that in adding two-digit numbers, one adds tens and tens, ones and ones; sometimes it is necessary to compose a ten.

1.N.4.g Subtract multiples of ten from two-digit numbers (positive or zero differences) using concrete models, drawings, and strategies that reflect an understanding of place value, the relationship between addition and subtraction, and the properties of operations. Relate the strategy to a written method and explain the reasoning used to solve.

**1.N.5 Number and Algebraic Relationships: Students will understand and apply properties of operations and the relationship between addition and subtraction to solve problems.**

1.N.5.a Use the meaning of the equal sign to determine if equations are true and give examples of equations that are true (e.g.,  $4 = 4$ ,  $6 = 7 - 1$ ,  $6 + 3 = 3 + 6$ ,  $7 + 2 = 5 + 4$ ).

1.N.5.b Use the relationship of addition and subtraction to solve subtraction problems (e.g., find  $12 - 9 =$  \_\_\_\_\_, using the addition fact  $9 + 3 = 12$ ).

1.N.5.c Determine the unknown whole number in an addition or subtraction equation (e.g.,  $7 + ? = 13$ ).

1.N.5.d Use the commutative property of addition to develop addition strategies and compose/decompose numbers to develop addition and subtraction strategies. (See other flexible strategies in 1.N.4.a49).

1.N.5.e Solve problems that call for addition of three whole numbers whose sum is less than or equal to 20 using flexible strategies with objects, drawings, and/or equations.

1.N.5.f Solve authentic problems involving addition and subtraction within 20 in situations of adding to, taking from, putting together, taking apart, and comparing, with unknowns in all parts of the addition or subtraction problem by using objects, drawings, and/or equations with a symbol for the unknown number to represent the problem.

1.N.5.g Create an authentic problem to represent a given equation involving addition and subtraction within 20.

**ALGEBRA: Students will solve problems and reason with algebra using multiple representations, make connections within math and across disciplines, and communicate their ideas.**

*SEE NUMBER AND ALGEBRAIC RELATIONSHIPS IN NUMBER (1.N.5)*

**GEOMETRY: Students will solve problems and reason with geometry using multiple representations, make connections within math and across disciplines, and communicate their ideas.**

**1.G.1 Shapes and Their Attributes: Students will represent and describe the attributes of two-dimensional shapes.**

1.G.1.a Determine geometric attributes of two-dimensional shapes regardless of orientation or size for rhombi, trapezoids, and hexagons (e.g., a hexagon is closed with six sides).

1.G.1.b Determine geometric attributes of three-dimensional shapes including cones, cylinders, cubes, and rectangular prisms regardless of orientation or size.

1.G.1.c Describe lines and sides of shapes as parallel or non-parallel.

1.G.1.d Partition circles and rectangles into two and four equal parts using the language halves and fourths.

**1.G.2 Measurement: Students will measure and compare lengths.**

1.G.2.a Measure the length of an object as a whole number of same-size, non-standard units by placing them end to end.

1.G.2.b Order three objects by directly comparing their lengths or indirectly by using a third object.

**1.G.3 Time and Money: Students will solve problems with coins and tell time to the half hour.**

1.G.3.a Understand the value of dimes and pennies (e.g., a dime is equal to ten pennies) relating to tens and ones and solve problems involving dimes and pennies using the ¢ symbol appropriately.

1.G.3.b Count collections of like coins (penny, nickel, and dime) relating to patterns of counting by 1s, 5s, and 10s.

1.G.3.c Tell and write time to the half hour and hour using analog and digital clocks.

**DATA: Students will solve problems and reason with data/probability using multiple representations, make connections within math and across disciplines, and communicate their ideas.**

**1.D.1 Data Collection: Students will formulate questions to collect, organize, and represent data.**

1.D.1.a Collect, organize, and represent a data set with up to three categories using a picture graph.

**1.D.2 Analyze Data and Interpret Results: Students will analyze the data and interpret the results.**

1.D.2.a Ask and answer questions about the total number of data points, how many in each category, and compare categories by identifying how many more or less are in a particular category using a picture graph.

## Grade 2 Standards

### Grade 2 Content Focus

During Grade 2, instruction should emphasize the development of the mathematical processes as the vehicle for mastering the grade-level content. Instruction should focus on these critical areas:

- Building on base-ten numeration system and place-value concepts to demonstrate understanding of multi-digit numbers.
- Applying properties of operations and the relationship between adding and subtracting.
- Developing quick recall of addition facts and related subtraction facts.
- Solving problems that involve time and/or money.
- Extending understanding of linear measurement by measuring and estimating lengths and relating length to addition and subtraction.

## Mathematical Processes

To develop essential mathematical habits of mind, mathematically proficient students:

<p>Make sense of problems and persevere in <b>solving</b> them.</p> 	<p><b>Reason</b> quantitatively and abstractly and consider the reasoning of others.</p> 	<p>Create and use <b>representations</b> to organize, record, and communicate mathematical ideas.</p> 	<p>Analyze mathematical relationships to <b>connect</b> mathematical ideas.</p> 	<p>Explain and justify mathematical ideas using precise mathematical language in written or oral <b>communication</b>.</p> 
<b>PROBLEM SOLVING</b>	<b>REASONING</b>	<b>REPRESENTATIONS</b>	<b>CONNECTIONS</b>	<b>COMMUNICATION</b>

**NUMBER: Students will solve problems and reason with number concepts using multiple representations, make connections within math and across disciplines, and communicate their ideas.**

**2.N.1 Subitizing: Students will quantify briefly shown collections and verbally label the arrangements without counting.**

2.N.1.a Without counting, recognize and verbally label structured arrangements for briefly shown collections using groups, multiplicative thinking, and place value (e.g., "I saw 48." "How did you know?" "I saw 4 groups of 10 and 2 groups of 4 is 8...4 tens and 8 ones...48").

**2.N.2 Counting: Students will understand the relationship between numbers and quantities to extend the counting sequence.**

2.N.2.a Count within 1,000, including skip counting by 5s, 10s, and 100s starting at a variety of multiples of 5, 10, or 100.

**2.N.3 Base Ten: Students will represent and compare three-digit numbers to apply concepts of place value.**

2.N.3.a Read and write numbers within the range of 0 to 1,000 using standard, word, and expanded forms.

2.N.3.b Understand 100 as a bundle, collection, or (more abstractly) composition of ten tens and that the three digits of a three-digit number represent a composition of some hundreds, some tens, and some ones.

2.N.3.c Compare two three-digit numbers by using symbols  $<$ ,  $>$ ,  $=$  and justify the comparison based on the value of the hundreds, tens, and ones.

**2.N.4 Number and Operations: Students will compute using addition and subtraction.**

2.N.4.a Fluently add and subtract within 20.

2.N.4.b Add and subtract within 100 strategies based on place value including properties of operations, relationships between addition and subtraction, and algorithms.

2.N.4.c Mentally add or subtract 10 or 100 to or from a given number 100 to 900.

2.N.4.d Add up to three two-digit numbers using strategies based on place value and understanding of properties.

2.N.4.e Add and subtract within 1,000 using concrete models, drawings, and strategies that reflect an understanding of place value and the properties of operations.

**2.N.5 Number and Algebraic Relationships: Students will create and solve problems involving addition and subtraction and work with equal groups of objects to gain foundations for multiplication.**

2.N.5.a Solve authentic problems involving addition and subtraction within 100 in situations of addition and subtraction, including adding to, subtracting from, joining and separating, and comparing situations with unknowns in all positions using objects, models, drawings, verbal explanations, expressions, and equations.

2.N.5.b Create authentic problems to represent one-step addition and subtraction within 100 with unknowns in all positions.

2.N.5.c Use repeated addition to find the total number of objects arranged in an array no larger than five rows and five columns and write an equation to express the total.

2.N.5.d Identify a group of objects from 0 to 20 as even or odd by counting by 2s or by showing even numbers as a sum of two equal parts.

**ALGEBRA: Students will solve problems and reason with algebra using multiple representations, make connections within math and across disciplines, and communicate their ideas.**

*SEE NUMBER AND ALGEBRAIC RELATIONSHIPS IN NUMBER (2.N.5)*

**GEOMETRY: Students will solve problems and reason with geometry using multiple representations, make connections within math and across disciplines, and communicate their ideas.**

**2.G.1 Shapes and Their Attributes: Students will recognize and represent the attributes of two-dimensional shapes and three-dimensional solids.**

2.G.1.a Recognize and describe all faces of three-dimensional shapes as two-dimensional shapes. Identify and count attributes of solid shapes including the edges, faces, and vertices.

2.G.1.b Recognize and draw two-dimensional shapes having a specific number of sides, angles, and vertices including triangles, quadrilaterals, pentagons, and hexagons.

2.G.1.c Partition a rectangle into rows and columns of equal-sized squares and count to find the total.

2.G.1.d Divide circles and rectangles into two, three, or four equal parts and describe the parts using the language of halves, thirds, fourths, half of, a third of, and a fourth of.

2.G.1.e Recognize that equal shares of identical wholes need not have the same shape.

**2.G.2 Describe Measurable Attributes: Students will measure, estimate, and compare lengths to build meaning of the measurement process.**

2.G.2.a Measure the length of an object using two different length units and describe how the measurements relate to the size of the specific unit.

2.G.2.b Compare the difference in length of objects using inches and feet or centimeters and meters.

**2.G.3 Measurement: Students will use tools to measure and estimate length using standard units.**

2.G.3.a Identify and use appropriate tools for measuring length.

2.G.3.b Measure and estimate lengths using whole numbers with inches, feet, centimeters, and meters.

**2.G.4 Relate Addition and Subtraction to Measurement: Students will add or subtract to solve length problems.**

2.G.4.a Represent whole numbers as equally spaced lengths on a number line diagram. Use number lines to find sums and differences within 100.

2.G.4.b Use addition and subtraction within 100 to solve problems using the same standard-length units.

**2.G.5 Time and Money: Students will solve problems with dollar bills and coins and tell time to the nearest five-minute interval.**

2.G.5.a Solve problems involving dollar bills, quarters, dimes, nickels, and pennies using \$ and ¢ symbols appropriately.

2.G.5.b Identify and write time to five-minute intervals using analog and digital clocks and both a.m. and p.m.

**DATA: Students will solve problems and reason with data/probability using multiple representations, make connections within math and across disciplines, and communicate their ideas.**

**2.D.1 Data Collection: Students will formulate questions to collect, organize, and represent data.**

2.D.1.a Ask authentic questions to generate data and represent the data using scaled picture graphs with up to four categories.

2.D.1.b Ask authentic questions to generate data and represent the data using bar graphs with up to four categories.

2.D.1.c Create and represent a data set by making a line plot using whole numbers.

**2.D.2 Analyze Data and Interpret Results: Students will analyze the data and interpret the results.**

2.D.2.a Analyze data using scaled picture graphs or bar graphs with up to four categories. Solve problems including one-step comparison problems, using information from the graphs.

## Grade 3 Standards

### Grade 3 Content Focus

During Grade 3, instruction should emphasize the development of the mathematical processes as the vehicle for mastering the grade-level content. Instruction should focus on these critical areas:

- Building on additive reasoning to develop understanding of multiplication and division
- Exploring multiplication properties and strategies to multiply within 100 flexibly and efficiently
- Developing understanding of fractions as numbers by connecting prior work in partitioning shapes in equal areas to the relationship between numerator and denominator
- Solving problems using visual fraction models to compare and find equivalencies.
- Reasoning with shapes and their attributes.
- Recognizing area as an attribute of two-dimensional shapes and connecting understanding to multiplication.

## Mathematical Processes

To develop essential mathematical habits of mind, mathematically proficient students:

<p>Make sense of problems and persevere in <b>solving</b> them.</p> 	<p><b>Reason</b> quantitatively and abstractly and consider the reasoning of others.</p> 	<p>Create and use <b>representations</b> to organize, record, and communicate mathematical ideas.</p> 	<p>Analyze mathematical relationships to <b>connect</b> mathematical ideas.</p> 	<p>Explain and justify mathematical ideas using precise mathematical language in written or oral <b>communication</b>.</p> 
<b>PROBLEM SOLVING</b>	<b>REASONING</b>	<b>REPRESENTATIONS</b>	<b>CONNECTIONS</b>	<b>COMMUNICATION</b>

**NUMBER: Students will solve problems and reason with number concepts using multiple representations, make connections within math and across disciplines, and communicate their ideas.**

**3.N.1 Numeric Relationships: Students will demonstrate and represent multi-digit numbers using place value understanding.**

3.N.1.a Read, write, and demonstrate multiple equivalent representations for numbers up to 10,000 using objects or visual representations including standard form and expanded form.

3.N.1.b Represent and justify comparisons of whole numbers up to 10,000 using number lines and reasoning strategies.

**3.N.2 Fractions: Students will develop understanding of fractions as numbers.**

3.N.2.a Partition two-dimensional figures into equal areas and express the area of each part as a unit fraction of the whole.

3.N.2.b Find parts of a whole using visual fraction models.

3.N.2.c Represent and understand a fraction as a number on a number line.

3.N.2.d Show and identify equivalent fractions using visual representations including pictures, manipulatives, and number lines.

3.N.2.e Justify whole numbers as fractions and identify fractions that are equivalent to whole numbers.

3.N.2.f Compare and order fractions having the same numerators or denominators by reasoning about their size.

**ALGEBRA: Students will solve problems and reason with algebra using multiple representations, make connections within math and across disciplines, and communicate their ideas.**

**3.A.1 Operations and Algebraic Thinking: Students will extend understanding of multiplication and apply operational properties to solve problems.**

- 3.A.1.a Add and subtract up to four-digit whole numbers with or without regrouping using strategies based on place value and algorithms.
- 3.A.1.b Determine the reasonableness of whole number sums and differences using estimations and number sense.
- 3.A.1.c Solve and write one-step whole number equations to represent authentic problems using the four operations including equations with an unknown start, unknown change, or unknown result.
- 3.A.1.d Interpret and solve two-step authentic problems involving whole numbers and the four operations.
- 3.A.1.e Apply commutative, associative, distributive, identity, and zero properties as strategies to multiply and divide.
- 3.A.1.f Use drawings, words, arrays, symbols, repeated addition, equal groups, and number lines to interpret and explain the meaning of multiplication and division and their relationship.
- 3.A.1.g Fluently multiply and divide within 100 using strategies based on understanding and properties of operations.
- 3.A.1.h Multiply one-digit whole numbers by multiples of 10 in the range of 10 to 90 using strategies based on place value and properties of operations.

**GEOMETRY: Students will solve problems and reason with geometry using multiple representations, make connections within math and across disciplines, and communicate their ideas.**

**3.G.1 Shapes and Their Attributes: Students will recognize and represent the attributes of two-dimensional shapes.**

3.G.1.1 Sort quadrilaterals into categories according to their attributes.

**3.G.2 Area and Perimeter: Students will recognize perimeter and area as attributes of plane figures and understand concepts of area measurement.**

3.G.2.a Solve authentic problems involving perimeters of polygons when given the side lengths or when given the perimeter and unknown side length(s).

3.G.2.b Use concrete and pictorial models to measure areas in square units by counting square units.

3.G.2.c Find the area of a rectangle with whole-number side lengths by modeling with unit squares; show that area can be additive and is the same as it would be found by multiplying the side lengths.

**3.G.3 Measurement: Students will use tools to solve measurement problems.**

3.G.3.a Identify and use the appropriate tools and units of measurement, both customary and metric, to solve authentic problems involving length, weight, mass, liquid volume, and capacity (within the same system and unit).

3.G.3.b Estimate and measure length to the nearest half inch, fourth inch, and centimeter.

**3.G.4 Time: Students will tell time to the nearest minute and find elapsed time.**

3.G.4.a Tell and write time to the minute using both analog and digital clocks.

3.G.4.b Solve authentic problems involving addition and subtraction of time intervals and find elapsed time.

**DATA: Students will solve problems and reason with data/probability using multiple representations, make connections within math and across disciplines, and communicate their ideas.**

**3.D.1 Data Collection: Students will formulate questions to collect, organize, and represent data.**

3.D.1.a Create scaled picture graphs and scaled bar graphs to represent a data set with more than four categories, including data collected through observations, surveys, and experiments.

3.D.1.b Generate and represent data using line plots where the horizontal scale is marked off in halves and whole number units.

**3.D.2 Analyze Data and Interpret Results: Students will analyze the data and interpret the results.**

3.D.2.a Analyze data and make simple statements using information represented in picture graphs, line plots, and bar graphs.

## Grade 4 Standards

### Grade 4 Content Focus

During Grade 4, instruction should emphasize the development of the mathematical processes as the vehicle for mastering the grade-level content. Instruction should focus on these critical areas:

- Developing understanding and fluency with multi-digit multiplication through visual models and operational properties.
- Developing understanding of division involving multi-digit dividends using place value models.
- Extending understanding of fraction equivalence and operations with fractions by composing and decomposing, reasoning about relative size, and applying properties of operations.
- Classifying two-dimensional shapes according to their attributes such as the presence or absence of lines or angles.
- Developing understanding of an angle as a turn in a circle and justify the classification of angles as acute, obtuse, and right.

## Mathematical Processes

To develop essential mathematical habits of mind, mathematically proficient students:

<p>Make sense of problems and persevere in <b>solving</b> them.</p>	<p><b>Reason</b> quantitatively and abstractly and consider the reasoning of others.</p>	<p>Create and use <b>representations</b> to organize, record, and communicate mathematical ideas.</p>	<p>Analyze mathematical relationships to <b>connect</b> mathematical ideas.</p>	<p>Explain and justify mathematical ideas using precise mathematical language in written or oral <b>communication</b>.</p>
				
<b>PROBLEM SOLVING</b>	<b>REASONING</b>	<b>REPRESENTATIONS</b>	<b>CONNECTIONS</b>	<b>COMMUNICATION</b>

**NUMBER: Students will solve problems and reason with number concepts using multiple representations, make connections within math and across disciplines, and communicate their ideas.**

**4.N.1 Numeric Relationships: Students will demonstrate and represent multi-digit numbers using relationships with the base-ten number system.**

- 4.N.1.a Read, write, and demonstrate multiple equivalent representations for whole numbers up to 1,000,000 and decimals to the hundredths using visual representations, standard form, and expanded form.
- 4.N.1.b Represent and justify comparisons of whole numbers up to 1,000,000 and decimals through the hundredths place using number lines and reasoning strategies.
- 4.N.1.c Recognize a digit in one place represents ten times what it represents in the place to its right.
- 4.N.1.d Use decimal notation for fractions with denominators of 10 or 100 (e.g.,  $\frac{43}{100} = 0.43$ ).

**4.N.2 Fractions and Decimals: Students will extend understanding of fractions by equivalence and ordering and will develop an understanding of decimals.**

- 4.N.2.a Explain and demonstrate how a mixed number is equivalent to a fraction greater than one and how a fraction greater than one is equivalent to a mixed number using visual fraction models and reasoning strategies.
- 4.N.2.b Explain and demonstrate how equivalent fractions are generated by multiplying by a fraction equivalent to 1 using visual fraction models and the Identity Property of Multiplication.
- 4.N.2.c Compare and order fractions having unlike numerators or denominators using number lines, benchmarks, reasoning strategies, and/or equivalence.

**4.N.3 Operations with Fractions: Students will understand and demonstrate fractional computation.**

- 4.N.3.a Decompose a fraction into a sum of fractions with the same denominator in more than one way and record each decomposition with an equation and a visual representation.

4.N.3.b Explain the meaning of addition and subtraction of fractions with like denominators using visual fraction models, properties of operations, and reasoning strategies.

4.N.3.c Add and subtract fractions and mixed numbers with like denominators.

4.N.3.d Solve authentic problems involving addition and subtraction of fractions and mixed numbers with like denominators.

4.N.3.e Multiply a fraction by a whole number using visual fraction models and properties of operations.

**4.N.4 Factors and Multiples: Students will find factors and multiples and classify numbers as prime or composite.**

4.N.4.a Determine whether a given whole number up to 100 is a multiple of a given one-digit number.

4.N.4.b Determine factors of any whole number up to 100 and classify a number up to 100 as prime or composite.

**ALGEBRA: Students will solve problems and reason with algebra using multiple representations, make connections within math and across disciplines, and communicate their ideas.**

**4.A.1 Operations and Algebraic Thinking: Students will extend understanding of multiplication and division and apply operational properties to solve problems involving variables.**

4.A.1.a Add and subtract multi-digit numbers using an algorithm.

4.A.1.b Multiply up to a four-digit whole number by a one-digit whole number and multiply a two-digit whole number by a two-digit whole number, using strategies based on place value, properties of operations, and algorithms.

4.A.1.c Divide up to a four-digit whole number by a one-digit divisor with and without a remainder using strategies based on place value.

4.A.1.d Determine the reasonableness of whole number products and quotients using estimations and number sense.

4.A.1.e Create a simple algebraic expression or equation using a variable for an unknown number to represent an authentic mathematical situation (e.g.,  $3 + n = 15$ ,  $81 \div n = 9$ ).

4.A.1.f Solve one- and two-step authentic problems using the four operations including interpreting remainders and the use of a letter to represent the unknown quantity.

**GEOMETRY: Students will solve problems and reason with geometry using multiple representations, make connections within math and across disciplines, and communicate their ideas.**

**4.G.1 Shapes and Their Attributes: Students will draw and identify lines and angles and classify shapes by properties of their lines and angles.**

4.G.1.a Identify, create, and describe points, lines, line segments, rays, angles, parallel lines, perpendicular lines, and intersecting lines.

4.G.1.b Justify the classification of angles as acute, obtuse, or right.

4.G.1.c Justify the classification of two-dimensional shapes based on the presence or absence of parallel and perpendicular lines or the presence or absence of specific angles.

4.G.1.d Recognize, draw, and justify lines of symmetry in two-dimensional shapes.

**4.G.2 Measurement: Students will generate simple conversions from a larger unit to a smaller unit to solve authentic problems and measure angles.**

4.G.2.a Identify and use the appropriate tools, operations, and units of measurement, both customary and metric, to solve authentic problems involving time, length, weight, mass, and capacity.

4.G.2.b Determine the reasonableness of measurements involving time, length, weight, mass, capacity, and angles.

4.G.2.c Generate simple conversions from a larger unit to a smaller unit within the customary and metric systems of measurement.

4.G.2.d Measure angles in whole number degrees using a protractor and relate benchmark angle measurements to their rotation through a circle (e.g.,  $180^\circ = 1/2$  of a circle).

4.G.2.e Recognize angle measures as additive and solve problems involving addition and subtraction to find unknown angles on a diagram.

**4.G.3 Area and Perimeter: Students will apply perimeter and area formulas for rectangles.**

4.G.3.a Apply perimeter and area formulas for rectangles to solve authentic problems.

**DATA: Students will solve problems and reason with data/probability using multiple representations, make connections within math and across disciplines, and communicate their ideas.**

**4.D.1 Data Collection: Students will formulate questions to collect, organize, and represent data.**

4.D.1.a Generate and represent data using line plots where the horizontal scale is marked off in appropriate units—whole numbers, halves, fourths, or eighths.

**4.D.2 Analyze Data and Interpret Results: Students will analyze the data and interpret the results.**

4.D.2.a Solve authentic problems and analyze data involving addition or subtraction of fractions presented in line plots.

## Grade 5 Standards

### Grade 5 Content Focus

During Grade 5, instruction should emphasize the development of the mathematical processes as the vehicle for mastering the grade-level content. Instruction should focus on these critical areas:

- Extending previous understandings of multiplication and division to multiply and divide fractions and decimals.
- Performing operations with multi-digit whole numbers and decimals to the hundredths in order to solve authentic problems following the order of operations.
- Categorizing shapes using knowledge of their attributes.
- Developing concepts of volume and relating volume to multiplication and addition.

## Mathematical Processes

To develop essential mathematical habits of mind, mathematically proficient students:

Make sense of problems and persevere in **solving** them.



**PROBLEM SOLVING**

**Reason** quantitatively and abstractly and consider the reasoning of others.



**REASONING**

Create and use **representations** to organize, record, and communicate mathematical ideas.



**REPRESENTATIONS**

Analyze mathematical relationships to **connect** mathematical ideas.



**CONNECTIONS**

Explain and justify mathematical ideas using precise mathematical language in written or oral **communication**.



**COMMUNICATION**

**NUMBER: Students will solve problems and reason with number concepts using multiple representations, make connections within math and across disciplines, and communicate their ideas.**

**5.N.1 Numeric Relationships: Students will understand the place value system.**

5.N.1.a Read, write, and demonstrate multiple equivalent representations for multi-digit whole numbers and decimals through the thousandths place using standard form and expanded form.

5.N.1.b Recognize a digit in one place represents  $\frac{1}{10}$  of what it represents in the place to its left.

5.N.1.c Use whole number exponents to denote powers of 10.

**5.N.2 Fractions and Decimals: Students will extend understanding of fraction and decimal equivalence and ordering.**

5.N.2.a Generate equivalent forms of commonly used fractions and decimals (e.g., halves, fourths, fifths, tenths).

5.N.2.b Represent and justify comparisons of whole numbers, fractions, mixed numbers, and decimals through the thousandths place using number lines, reasoning strategies, and/or equivalence.

**5.N.3 Operations with Fractions and Decimals: Students will apply and extend previous understandings of whole number operations to add, subtract, multiply and divide fractions and decimals.**

5.N.3.a Interpret a fraction as division of the numerator by the denominator.

5.N.3.b Multiply a whole number by a fraction or a fraction by a fraction, including mixed numbers, using visual fraction models and properties of operations.

5.N.3.c Divide a unit fraction by a whole number and a whole number by a unit fraction using visual fraction models and properties of operations.

5.N.3.d Solve authentic problems involving addition, subtraction, and multiplication of fractions and mixed numbers with like and unlike denominators.

5.N.3.e Add and subtract fractions and mixed numbers with unlike denominators without simplifying.

5.N.3.f Solve authentic problems involving division of fractions by whole numbers and division of whole numbers by unit fractions.

5.N.3.g Add, subtract, multiply, and divide decimals to hundredths using strategies based on place value, properties of operations, and/or algorithms.

**ALGEBRA: Students will solve problems and reason with algebra using multiple representations, make connections within math and across disciplines, and communicate their ideas.**

**5.A.1 Operations and Algebraic Thinking: Students will extend understanding of division and apply operational properties to solve problems involving order of operations.**

5.A.1.a Multiply multi-digit whole numbers using an algorithm.

5.A.1.b Divide four-digit whole numbers by a two-digit divisor, with and without remainders, using strategies based on place value.

5.A.1.c Justify the reasonableness of computations involving whole numbers, fractions, and decimals.

5.A.1.d Solve authentic numerical or algebraic expressions using order of operations (excluding exponents).

**GEOMETRY: Students will solve problems and reason with geometry using multiple representations, make connections within math and across disciplines, and communicate their ideas.**

**5.G.1 Shapes and Their Attributes: Students will classify two-dimensional figures into categories based on their properties.**

5.G.1.a Identify and describe faces, edges, and vertices of rectangular prisms.

5.G.1.b Recognize volume as an attribute of solid figures that is measured in cubic units.

5.G.1.c Justify the classification of two-dimensional figures in a hierarchy based on their properties.

**5.G.2 Coordinate Geometry: Graph points on the coordinate plane to solve authentic problems.**

5.G.2.a Identify the origin, x axis, and y axis of the coordinate plane.

5.G.2.b Graph and name points in the first quadrant of the coordinate plane using ordered pairs of whole numbers.

5.G.2.c Form ordered pairs from authentic problems involving rules or patterns and graph the ordered pairs in the first quadrant on a coordinate plane and interpret coordinate values in the context of the situation.

**5.G.3 Measurement: Generate conversions within the customary and metric systems of measurement to solve authentic problems.**

5.G.3.a Generate conversions in authentic mathematical situations from larger units to smaller units and smaller units to larger units, within the customary and metric systems of measurement.

**5.G.4 Area and Volume: Students will extend area problems for rectangles to include fractions and build meaning for measuring volume.**

5.G.4.a Find the area of a rectangle with fractional side lengths by tiling it with unit squares of the fraction side lengths and show that the area is the same as would be found by multiplying the side lengths.

5.G.4.b Multiply fractional side lengths to find areas of rectangles and represent fraction products as rectangular areas.

5.G.4.c Use concrete models to measure the volume of rectangular prisms by counting cubic units.

5.G.4.d Find the volume of a rectangular prism with whole-number side lengths by modeling with unit squares and show that the volume can be additive and is the same as would be found by multiplying the area of the base times height.

5.G.4.e Solve authentic problems by applying the formulas  $V = l \times w \times h$  and  $V = B \times h$  for rectangular prisms to find volumes of rectangular prisms with whole number edge lengths.

**DATA: Students will solve problems and reason with data/probability using multiple representations, make connections within math and across disciplines, and communicate their ideas.**

**5.D.1 Data Collection: Students will formulate questions to collect, organize, and represent data.**

No additional indicators at this level.

**5.D.2 Analyze Data and Interpret Results: Students will analyze the data and interpret the results.**

5.D.2.a Represent, analyze, and solve authentic problems using information presented in one or more tables or line plots including whole numbers and fractions.

## Grade 6 Standards

### Grade 6 Content Focus

During Grade 6, instruction should emphasize the development of the mathematical processes as the vehicle for mastering the grade-level content. Instruction should focus on these critical areas:

- Connecting ratio and rate to whole number multiplication and division and using concepts of ratio and rate to solve problems.
- Completing computational understanding with the division of fractions and moving towards efficiency by using the algorithm for each operation.
- Extending understanding of the number line to include the entire system of rational numbers, which now includes negative numbers.
- Writing and using expressions and equations
- Representing data in multiple ways in order to analyze and interpret the results.

## Mathematical Processes

To develop essential mathematical habits of mind, mathematically proficient students:

Make sense of problems and persevere in **solving** them.



**PROBLEM SOLVING**

**Reason** quantitatively and abstractly and consider the reasoning of others.



**REASONING**

Create and use **representations** to organize, record, and communicate mathematical ideas.



**REPRESENTATIONS**

Analyze mathematical relationships to **connect** mathematical ideas.



**CONNECTIONS**

Explain and justify mathematical ideas using precise mathematical language in written or oral **communication**.



**COMMUNICATION**

**NUMBER: Students will solve problems and reason with number concepts using multiple representations, make connections within math and across disciplines, and communicate their ideas.**

**6.N.1 Numeric Relationships: Students will demonstrate, represent, and show relationships among fractions, decimals, percents, and integers within the base-ten number system.**

6.N.1.a Determine common factors and common multiples.

6.N.1.b Determine prime factorization of numbers with and without exponents.

6.N.1.c Model integers using drawings, words, number lines, models and symbols.

6.N.1.d Determine absolute value of rational numbers.

6.N.1.e Compare and order numbers including non-negative fractions and decimals, integers, and absolute values and locate them on the number line.

**6.N.2 Operations: Students will compute with fractions and decimals accurately.**

6.N.2.a Divide multi-digit whole numbers and decimals using an algorithm.

6.N.2.b Divide non-negative fractions and mixed numbers.

6.N.2.c Evaluate numerical expressions including absolute value and/or positive exponents with respect to order of operations.

**RATIOS AND PROPORTIONS: Students will understand ratio concepts and use ratio reasoning to solve problems.<sup>2</sup>**

**6.R.1 Ratios and Rates: Students will understand the concept of ratios and unit rates, use language to describe the relationship between two quantities, and use ratios and unit rates to solve authentic situations.**

- 6.R.1.a Determine ratios from concrete models, drawings, and/or words.
- 6.R.1.b Explain and determine unit rates.
- 6.R.1.c Find a percent of a quantity as a rate per 100 and solve problems involving finding the whole, given a part and the percent.
- 6.R.1.d Convert among fractions, decimals, and percents using multiple representations.
- 6.R.1.e Solve authentic problems using ratios, unit rates, and percents.
- 6.R.1.f Use ratio reasoning to convert measurement units; manipulate and transform units appropriately when multiplying or dividing quantities.

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<sup>2</sup> Ratios and Proportions is a new content strand found only in Grades 6 and 7.

**6.R.2 Represent: Students will represent ratios and rates on the coordinate plane.**

- 6.R.2.a Identify the ordered pair of a given point in the coordinate plane.
- 6.R.2.b Plot the location of an ordered pair in the coordinate plane.
- 6.R.2.c Identify the location of a given point in the coordinate plane (e.g., axis, origin, quadrant).
- 6.R.2.d Make tables of equivalent ratios relating quantities with whole number measurements.
- 6.R.2.e Use the constant of proportionality to find the missing value in ratio tables.
- 6.R.2.f Plot the pair of values from a ratio table on the coordinate plane.
- 6.R.2.g Explain what a point  $(x, y)$  on the graph of a proportional relationship means in terms of the situation.

**ALGEBRA: Students will solve problems and reason with algebra using multiple representations, make connections within math and across disciplines, and communicate their ideas.**

**6.A.1 Algebraic Processes: Students will apply the operational properties when evaluating expressions and solving equations and inequalities.**

- 6.A.1.a Recognize and generate equivalent algebraic expressions involving the distributive property and combining like terms.
- 6.A.1.b Given the value of the variable, evaluate algebraic expressions with non-negative rational numbers with respect to order of operations, which may include absolute value.
- 6.A.1.c Use substitution to determine if a given value for a variable makes an equation or inequality true.
- 6.A.1.d Solve one-step equations with non-negative rational numbers using addition, subtraction, multiplication, and division.
- 6.A.1.e Solve one-step inequalities with whole numbers using addition, subtraction, multiplication, and division and represent solutions on a number line (e.g., graph  $3x > 3$ ).

**6.A.2 Applications: Students will solve authentic problems with algebraic expressions, equations, and inequalities.**

- 6.A.2.a Create algebraic expressions (e.g., one operation, one variable as well as multiple operations, one variable) from word phrases.
- 6.A.2.b Write equations (e.g., one operation, one variable) to represent authentic situations involving non-negative rational numbers.
- 6.A.2.c Write inequalities (e.g., one operation, one variable) to represent authentic situations involving whole numbers.

**GEOMETRY: Students will solve problems and reason with geometry using multiple representations, make connections within math and across disciplines, and communicate their ideas.**

**6.G.1 Attributes: Students will identify and describe geometric attributes of two- dimensional shapes.**

6.G.1.a Identify and create nets to represent two-dimensional drawings of prisms and pyramids.

**6.G.2 Coordinate Geometry: Students will determine location, orientation, and relationships on the coordinate plane.**

*SEE WORK WITH COORDINATE PLANES IN RATIOS AND PROPORTIONS (6.R.2)*

**6.G.3 Measurement: Students identify geometric attributes that create two- and three-dimensional shapes in order to perform measurements and apply formulas to find area and volume.**

6.G.3.a Determine the area of quadrilaterals and triangles by composition and decomposition of these shapes, as well as applications of properties and formulas. Quadrilaterals include parallelograms and trapezoids.

6.G.3.b Determine the surface area of rectangular prisms and triangular prisms using nets as well as application of formulas.

6.G.3.c Apply volume formulas for triangular prisms.

**DATA: Students will solve problems and reason with data/probability using multiple representations, make connections within math and across disciplines, and communicate their ideas.**

**6.D.1 Data Collection and Statistical Methods: Students will formulate statistical investigative questions, collect data, and organize data.**

No additional indicators at this level.

**6.D.2 Analyze Data and Interpret Results: Students will represent and analyze the data and interpret the results.**

- 6.D.2.a Represent data using dot plots, box-and-whisker plots, and histograms.
- 6.D.2.b Solve problems using information presented in dot plots, box-and-whisker plots, histograms, and circle graphs.
- 6.D.2.c Find and interpret the mean, median, mode, and range for a set of data.
- 6.D.2.d Compare the mean, median, mode, and range from two sets of data.
- 6.D.2.e Compare and interpret data sets based upon their measures of central tendency and graphical representations (e.g., center, spread, shape).

**6.D.3 Probability: Students will interpret and apply concepts of probability.**

- 6.D.3.a Identify a list of possible outcomes for a simple event.
- 6.D.3.b Describe the theoretical and experimental probability of an event using a fraction, percentage, and decimal.
- 6.D.3.c Express the degree of likelihood (possible, impossible, certain, more likely, equally likely, or less likely) of simple events.
- 6.D.3.d Compare and contrast theoretical and experimental probabilities.

## Grade 7 Standards

### Grade 7 Content Focus

During Grade 7, instruction should emphasize the development of the mathematical processes as the vehicle for mastering the grade-level content. Instruction should focus on these critical areas:

- Developing an understanding of proportional relationships.
- Understanding operations with rational numbers.
- Using expressions and linear equations to represent and solve problems.
- Solving problems involving perimeter and area of two-dimensional figures as well as surface area and volume of three-dimensional figures.
- Investigating probability concepts.

## Mathematical Processes

To develop essential mathematical habits of mind, mathematically proficient students:

Make sense of problems and persevere in **solving** them.



**PROBLEM SOLVING**

**Reason** quantitatively and abstractly and consider the reasoning of others.



**REASONING**

Create and use **representations** to organize, record, and communicate mathematical ideas.



**REPRESENTATIONS**

Analyze mathematical relationships to **connect** mathematical ideas.



**CONNECTIONS**

Explain and justify mathematical ideas using precise mathematical language in written or oral **communication**.



**COMMUNICATION**

**NUMBER: Students will solve problems and reason with number concepts using multiple representations, make connections within math and across disciplines, and communicate their ideas.**

**7.N.1 Numeric Relationships: Students will demonstrate, represent, and show relationships among rational numbers within the base-ten number system.**

No additional indicator(s) at this level.

**7.N.2 Operations: Students will compute with rational numbers accurately.**

7.N.2.a Add, subtract, multiply, and divide rational numbers (e.g., positive and negative fractions, decimals, and integers).

7.N.2.b Apply properties of operations (commutative, associative, distributive, identity, inverse, zero) as strategies for problem solving with rational numbers.

**<sup>3</sup>RATIOS AND PROPORTIONS: Students will understand ratio concepts and use ratio reasoning to solve problems.**

**7.R.1 Proportional Relationships: Students will understand the concept of proportions, use language to describe the relationship between two quantities, and use proportions to solve authentic situations.**

7.R.1.a Decide whether two quantities are in a proportional relationship (e.g., by testing for equivalent ratios in a table).

7.R.1.b Represent and solve authentic problems with proportions.

7.R.1.c Use proportional relationships to solve authentic percent problems (e.g., percent change, sales tax, mark-up, discount, tip).

7.R.1.d Solve authentic problems involving scale drawings.

**ALGEBRA: Students will solve problems and reason with algebra using multiple representations, make connections within math and across disciplines, and communicate their ideas.**

**7.A.1 Algebraic Processes: Students will apply the operational properties when evaluating expressions, and solving equations and inequalities.**

7.A.1.a Use factoring and properties of operations to create equivalent algebraic expressions (e.g.,  $2x + 6 = 2(x + 3)$ ).

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<sup>3</sup> Ratios and Proportions is a new content strand found only in Grades 6 and 7.

7.A.1.b Given the value of the variable(s), evaluate algebraic expressions, which may include absolute value.

7.A.1.c Solve one- and two-step equations involving rational numbers.

7.A.1.d Solve equations using the distributive property and combining like terms.

7.A.1.e Solve one- and two-step inequalities involving integers and represent solutions on a number line.

**7.A.2 Applications: Students will solve authentic problems with algebraic expressions, equations, and inequalities.**

7.A.2.a Write one- and two-step equations involving rational numbers from words, tables, and authentic situations.

7.A.2.b Write one- and two-step inequalities to represent authentic situations involving integers.

**GEOMETRY: Students will solve problems and reason with geometry using multiple representations, make connections within math and across disciplines, and communicate their ideas.**

**7.G.1 Attributes: Students will identify angle relationships and apply properties to determine angle measures.**

7.G.1.a Apply properties of adjacent, complementary, supplementary, linear pair, and vertical angles to find missing angle measures.

**7.G.2 Coordinate Geometry: Students will determine location, orientation, and relationships on the coordinate plane.**

7.G.2.a Draw polygons in the coordinate plane given coordinates for the vertices.

7.G.2.b Calculate vertical and horizontal distances in the coordinate plane to find perimeter and area of rectangles.

**7.G.3 Measurement: Students will identify geometric attributes that create two- and three-dimensional shapes in order to perform measurements and apply formulas to find area and volume.**

7.G.3.a Solve authentic problems involving perimeter and area of composite shapes made from triangles and quadrilaterals.

7.G.3.b Determine surface area and volume of composite rectangular and triangular prisms.

7.G.3.c Determine the area and circumference of circles both on and off the coordinate plane using 3.14 for the value of Pi.

**DATA: Students will solve problems and reason with data/probability using multiple representations, make connections within math and across disciplines, and communicate their ideas.**

**7.D.1 Data Collection and Statistical Methods: Students will formulate statistical investigative questions, collect data, and organize data.**

7.D.1.a Create an investigative question and collect data.

7.D.1.b Generate conclusions about a population based on a random sample.

7.D.1.c Identify and critique biases in various data representations.

**7.D.2 Analyze Data and Interpret Results: Students will represent and analyze the data and interpret the results.**

No additional indicator(s) at this level.

**7.D.3 Probability: Students will interpret and apply concepts of probability.**

7.D.3.a Find theoretical and experimental probabilities for compound independent and dependent events.

7.D.3.b Identify complementary events and calculate their probabilities.

## Grade 8 Standards

### Grade 8 Content Focus

During Grade 8, instruction should emphasize the development of the mathematical processes as the vehicle for mastering the grade-level content. Instruction should focus on these critical areas:

- Using linear equations to represent, analyze, and solve a variety of problems.
- Developing an understanding of irrational numbers and integer exponents.
- Analyzing two-dimensional figures and solving problems using understanding of distance, angle, similarity, and congruence.
- Understanding and applying the Pythagorean Theorem.
- Determining and describing rate of change and y-intercept for given situations.

## Mathematical Processes

To develop essential mathematical habits of mind, mathematically proficient students:

Make sense of problems and persevere in **solving** them.



**PROBLEM SOLVING**

**Reason** quantitatively and abstractly and consider the reasoning of others.



**REASONING**

Create and use **representations** to organize, record, and communicate mathematical ideas.



**REPRESENTATIONS**

Analyze mathematical relationships to **connect** mathematical ideas.



**CONNECTIONS**

Explain and justify mathematical ideas using precise mathematical language in written or oral **communication**.



**COMMUNICATION**

**NUMBER: Students will solve problems and reason with number concepts using multiple representations, make connections within math and across disciplines, and communicate their ideas.**

**8.N.1 Numeric Relationships: Students will demonstrate, represent, and show relationships among real numbers within the base-ten number system.**

8.N.1.a Determine subsets of numbers as natural, whole, integer, rational, irrational, or real based on the definitions of these sets of numbers.

8.N.1.b Represent numbers with positive and negative exponents and in scientific notation.

8.N.1.c Describe the difference between a rational and irrational number.

8.N.1.d Approximate, compare, and order real numbers, both rational and irrational, and locate them on the number line.

**8.N.2 Operations: Students will compute with exponents and roots.**

8.N.2.a Evaluate the square roots of perfect squares less than or equal to 400 and cube roots of perfect cubes less than or equal to 125.

8.N.2.b Simplify numerical expressions involving integer exponents, square roots, and cube roots (e.g.,  $4^{-2}$  is the same as  $1/16$ ).

8.N.2.c Evaluate numerical expressions involving absolute value.

8.N.2.d Multiply and divide numbers using scientific notation.

**ALGEBRA: Students will solve problems and reason with algebra using multiple representations, make connections within math and across disciplines, and communicate their ideas.**

**8.A.1 Algebraic Processes: Students will apply the operational properties when evaluating expressions and solving equations.**

8.A.1.a Describe single variable equations as having one solution, no solution, or infinitely many solutions.

8.A.1.b Solve multi-step equations involving rational numbers with the same variable appearing on both sides of the equation.

8.A.1.c Solve equations of the form  $x^2 = k$  ( $k \leq 400$ ) and  $x^3 = k$  ( $k \leq 125$ ), where  $k$  is a positive rational number, using square root and cube root symbols.

**8.A.2 Applications: Students will solve authentic problems involving multi-step equations.**

8.A.2.a Write multi-step single variable equations from words, tables, and authentic situations.

8.A.2.b Determine and describe the rate of change for given situations through the use of tables and graphs.

8.A.2.c Graph proportional relationships and interpret the rate of change.

**GEOMETRY: Students will solve problems and reason with geometry using multiple representations, make connections within math and across disciplines, and communicate their ideas.**

**8.G.1 Attributes: Students will apply properties of angle relationships in triangles and with lines to determine angle measures.**

8.G.1.a Determine and use the relationships of the interior angles of a triangle to solve for missing measures.

8.G.1.b Identify and apply geometric properties of parallel lines cut by a transversal and the resulting corresponding same side interior, alternate interior, and alternate exterior angles to find missing measures.

**8.G.2 Coordinate Geometry: Students will determine location, orientation, and relationships on the coordinate plane.**

8.G.2.a Perform and describe positions and orientations of shapes under single transformations including rotations in multiples of 90 degrees about the origin, translations, reflections, and dilations on and off the coordinate plane.

8.G.2.b Determine if two-dimensional figures are congruent or similar.

8.G.2.c Perform and describe positions and orientations of shapes under a sequence of transformations on and off the coordinate plane.

**8.G.3 Measurement: Students will reason with formulas and context to determine and compare length, area, and volume.**

8.G.3.a Explain a model of the Pythagorean Theorem.

8.G.3.b Apply the Pythagorean Theorem to find side lengths of triangles and to solve authentic problems.

8.G.3.c Find the distance between any two points on the coordinate plane using the Pythagorean Theorem.

8.G.3.d Determine the volume of cones, cylinders, and spheres and solve authentic problems using volumes.

**DATA: Students will solve problems and reason with data/probability using multiple representations, make connections within math and across disciplines, and communicate their ideas.**

**8.D.1 Data Collection and Statistical Methods: Students will formulate statistical investigative questions, collect data, and organize data.**

No additional indicator(s) at this level.

**8.D.2 Analyze Data and Interpret Results: Students will represent and analyze the data and interpret the results.**

8.D.2.a Represent and interpret bivariate data (e.g., ordered pairs) using scatter plots.

8.D.2.b Describe patterns such as positive or negative association, linear or nonlinear association, clustering, and outliers when bivariate data is represented on a coordinate plane.

8.D.2.c Draw an informal line of best fit based on the closeness of the data points to the line.

8.D.2.d Use a linear model to make predictions and interpret the rate of change and y-intercept in context.

**8.D.3 Probability: Students will interpret and apply concepts of probability.**

No additional indicator(s) at this level.

# High School Standards

## High School Content Focus

During high school, instruction should emphasize the development of the mathematical processes as the vehicle for mastering the content standards. The content standards are designed to be accessible to each and every high school student prior to graduation whereas the Advanced Topics reflect the mathematical content leading to certain career interests. Schools have the flexibility to organize the standards into integrated or strand-focused courses.

**NUMBER:** Instruction in Number should focus on these critical areas:

- Working in authentic contexts, solutions involve quantities, numbers with units.
- Using units, approximations, and estimations to check the reasonableness of their work.
- Understanding how forms of approximation can accumulate errors when problem solving.
- Understanding the four operations on real numbers applies to complex numbers.

**ALGEBRA:** Instruction in Algebra should focus on these critical areas:

- Solving many authentic problems to best understand patterns, expressions, relations, and functions.
- Using algebraic symbols and mathematical models to represent and demonstrate an understanding of quantitative relationships.
- Analyzing change as it arises in various contexts such as physical and social as supported by algebraic reasoning and the concept of function.
- Interpreting the functions in multiple representations, using their points of interest, and connecting across multiple representations to understand their mathematical equivalence instead of rote steps or procedures.

**GEOMETRY:** Instruction in Geometry should focus on these critical areas:

- Using mathematics to define the spatial attributes of the world around us.
- Exploring transformations (translations, reflections, rotations, and dilations) to build a foundation to understand congruence, similarity, and symmetry.
- Formalizing geometric concepts using planar geometry, parallelism, congruence, similarity, and symmetry.
- Connecting algebra and geometry via coordinate geometry, planar transformations, and trigonometry.
- Developing skills of argumentation and proof by proving congruence, similarity, symmetry, and other concepts of plane geometry.

**DATA:** Instruction in Data should focus on these critical areas:

- Using numbers in context (data) with the mathematical processes can result in better predictions and informed decisions.
- Using tools to apply statistical methods to describe patterns and trends.
- Understanding randomness, variability, and causality through data collection, data analysis, and interpretation of results.
- Describing data using probability and sampling distributions to judge whether a result is unsurprising or rare.

# Mathematical Processes

To develop essential mathematical habits of mind, mathematically proficient students:

<p>Make sense of problems and persevere in <b>solving</b> them.</p> 	<p><b>Reason</b> quantitatively and abstractly and consider the reasoning of others.</p> 	<p>Create and use <b>representations</b> to organize, record, and communicate mathematical ideas.</p> 	<p>Analyze mathematical relationships to <b>connect</b> mathematical ideas.</p> 	<p>Explain and justify mathematical ideas using precise mathematical language in written or oral <b>communication</b>.</p> 
<b>PROBLEM SOLVING</b>	<b>REASONING</b>	<b>REPRESENTATIONS</b>	<b>CONNECTIONS</b>	<b>COMMUNICATION</b>

**NUMBER: Students will solve problems and reason with number concepts using multiple representations, make connections within math and across disciplines, and communicate their ideas.**

**HS.N.1 Estimation and Technology: Students will use estimation strategies and technology to reason, to solve problems, and to make connections within mathematics and across disciplines.**

HS.N.1.a Select, apply, and explain the method of computation when problem solving using real numbers (e.g., models, mental computation, paper-pencil, technology).

HS.N.1.b Determine if the context of a problem calls for an approximation or an exact value.

HS.N.1.c Determine the rounding convention to be used based on the context of a problem.

HS.N.1.d Estimate a value using the concept of betweenness by bounding above and below (e.g., since  $\log(10) = 1$  and  $\log(1,000) = 3$  we know  $\log(500)$  is between 1 and 3).

HS. N.1.e Determine the tolerance interval and percent of error in measurement.

HS.N.1.f Convert equivalent rates (e.g., miles per hour to feet per second).

HS.N.1.g Determine whether extremely large or extremely small quantities can be reasonably represented by a calculator or graphing utility.

HS.N.1.h Use scientific notation to appropriately represent large and small quantities.

**HS.N.2 Sets and Operations: Students will use number sets and operations to reason and to solve problems.**

HS.N.2.a Extend the properties of exponents to rational numbers.

HS.N.2.b Use properties of rational and irrational numbers.

HS.N.2.c Demonstrate, represent, and show relationships among the subsets of real numbers and the complex number system.

HS.N.2.d Compute with subsets of the complex number system including imaginary, rational, irrational, integers, whole, and natural numbers.

**HS.N.3 Interpretation and Sense Making: Students will reason abstractly and quantitatively using units to solve problems and interpret results in context.**

HS.N.3.a Understand roundoff error and why roundoff error accumulates when rounding occurs prior to the last step in a computation.

HS.N.3.b Use estimation methods to check the reasonableness of real number computations and decide if the problem calls for an approximation (including appropriate rounding) or an exact number.

HS.N.3.c Use units to assess the validity of an answer in the context of a problem.

HS.N.3.d Communicate the meaning of an answer in the context of a problem.

**ALGEBRA: Students will solve problems and reason with algebra using multiple representations, make connections within math and across disciplines, and communicate their ideas.**

**HS.A.1 Algebraic Relationships: Students will demonstrate and represent relationships with functions.**

HS.A.1.a Demonstrate that functions are a well mapped subdomain of relations.

HS.A.1.b Analyze a relation to determine if it is a function given mapping diagrams, function notation (e.g.,  $f(x)=x^2$ ), a table, or a graph.

HS.A.1.c Classify a function given its mapping diagram, function notation, table, or graph as a linear, quadratic, absolute value, exponential, or other function.

HS.A.1.d Analyze a function's domain and range to determine if it is one-to-one and has an inverse function both algebraically and graphically.

HS.A.1.e Define, interpret, and analyze linear, quadratic, absolute value, and exponential functions using the points of interest of the functions and graphing technology.

HS.A.1.f Identify, analyze, and apply transformations of existing functions (including translation and dilation).

HS.A.1.g Interpret logarithmic equations as exponential equations.

HS.A.1.h Describe arithmetic sequences using tables of values and functions in explicit and recursive forms.

HS.A.1.i Describe geometric sequences using tables of values and functions in explicit and recursive forms.

**HS.A.2 Algebraic Processes: Students will apply the operational properties when evaluating rational expressions and solving linear and quadratic equations, and inequalities.**

HS.A.2.a Analyze and explain the properties used in solving equations, inequalities, systems of linear equations, systems of linear inequalities, and literal equations.

HS.A.2.b Generate expressions in equivalent forms by using algebraic properties to make different characteristics or features visible.

HS.A.2.c Analyze equations and inequalities to determine and apply efficient methods to solve and use appropriate technology as needed.

HS.A.2.d Calculate the slope (rate of change) of a line given coordinate points, a graph, or a table of values.

HS.A.2.e Write and graph equations of functions (linear, absolute value, quadratic, and exponential) using the points of interest of the function.

HS.A.2.f Given a line, write the equation of a line that is parallel or perpendicular to it.

HS.A.2.g Perform and explain operations such as addition, subtraction, multiplication, division, and factoring on polynomials.

HS.A.2.h Explain the connection between the factors of a polynomial and the zeros of a polynomial.

HS.A.2.i Combine functions by composition and perform operations on functions.

### **HS.A.3 Applications: Students will solve authentic problems using nonlinear functions.**

HS.A.3.a Analyze and model authentic situations using various representations and appropriate technology.

HS.A.3.b Identify, interpret, relate, and graph the factors, x-intercepts, roots, and zeros of polynomial functions using algebraic and graphing methods.

HS.A.3.c Identify and predict appropriate solutions to equations given context and domain/range (e.g., extraneous solutions, imaginary solutions, no solution, infinitely many solutions).

**GEOMETRY: Students will solve problems and reason with geometry using multiple representations, make connections within math and across disciplines, and communicate their ideas.**

**TOOLS: Students will sketch, draw, and construct appropriate representations using a variety of tools and methods which may include ruler/straight edge, protractor, compass, reflective devices, paper folding, or dynamic geometric software.**

**HS.G.1 Attributes: Students will identify and describe geometric attributes, apply properties and theorems, and create two- dimensional shapes.**

HS.G.1.a Demonstrate that two figures are similar or congruent by using a sequence of rigid motions and dilations that map a figure onto the other in problems both with and without coordinates.

HS.G.1.b Describe symmetries of a figure in terms of rigid motions that map a figure onto itself and make inferences about symmetric figures (e.g., unknown side lengths or angle measures) in problems both with and without coordinates.

HS.G.1.c Explain how the criteria for triangle congruence and similarity (ASA, SAS, and AAS SSS congruence; AA similarity criterion) follow from the definition of congruence and similarity in terms of corresponding parts.

HS.G.1.d Identify and apply right triangle relationships including converse of the Pythagorean Theorem.

HS.G.1.e Apply side and angle relationships of special right triangles (30-60-90 and 45-45-90) to solve geometric problems.

HS.G.1.f Identify and apply right triangle relationships including sine, cosine, and tangent.

HS.G.1.g Apply interior and exterior angle formulas for n-gons and apply to authentic situations.

HS.G.1.h Compare/contrast the properties of quadrilaterals: parallelograms, rectangles, rhombi, squares, kites, trapezoids, and isosceles trapezoids.

HS.G.1.i Use slope and the distance formula to determine the type of quadrilateral.

HS.G.1.j Identify, describe, apply, and reason through properties of central angles, inscribed angles, angles formed by intersecting chords, secants, and/or tangents to find the measures of angles related to the circle, arc lengths, and areas of sectors.

**HS.G.2 Attributes: Students will identify and describe geometric attributes, apply properties and theorems and create three-dimensional shapes.**

HS.G.2.a Convert between various units of volume (e.g., cubic feet to cubic yards).

HS.G.2.b Apply the effect of a scale factor to determine the volume of similar three-dimensional shapes and solids.

HS.G.2.c Determine surface area and volume of pyramids, as well as solids that are composites of pyramids, prisms, spheres, cylinders, and cones, using formulas and appropriate units.

**HS.G.3 Coordinate Geometry and Transformations: Students will demonstrate and represent location, orientation, and relationships on the coordinate plane.**

HS.G.3.a Derive the midpoint formula using the concept of average and apply the midpoint formula to find coordinates.

HS.G.3.b Find the images and preimages of transformations of a point, shape, or a relation on the coordinate plane. Transformations include the following and their compositions: reflections across horizontal and vertical lines and the lines  $y=x$  and  $y=-x$ , rotations about the origin of 90 degrees, dilations about the origin by any positive scale factor, and any translation.

HS.G.3.c Find the equation of a circle given the radius and the center.

**HS.G.4 Logic and Proof: Students will use geometric definitions and theorems to reason abstractly and quantitatively.**

HS.G.4.a Know and use definitions to make deductions in mathematical argumentation (e.g., syllogism, detachment).

HS.G.4.b Evaluate the validity of conditional statements, including biconditional statements (e.g., conditional, converse, contrapositive, inverse).

HS.G.4.c Evaluate the validity of an argument communicated in different ways (e.g., a flow format, two-column, paragraph format).

HS.G.4.d Use coordinate geometry to prove triangles are right, acute, obtuse, isosceles, equilateral, or scalene.

HS.G.4.e Prove and apply geometric properties and theorems regarding triangles, congruence, and similarity using deductive reasoning.

HS.G.4.f Prove and apply geometric theorems about quadrilaterals using deductive reasoning.

**DATA: Students will solve problems and reason with data/probability using multiple representations, make connections within math and across disciplines, and communicate their ideas.**

**HS.D.1 Data Collection and Statistical Methods: Students will formulate statistical investigative questions, collect data, and organize data.**

HS.D.1.a Formulate multi-variable statistical investigative questions and determine how data can be collected and analyzed to provide an answer.

HS.D.1.b Apply an appropriate data collection plan when collecting primary data for the statistical investigative question of interest.

HS.D.1.c Use appropriate technology, including spreadsheet-based logic, to organize data for analysis.

HS.D.1.d Distinguish between surveys, observational studies, and experiments.

HS.D.1.e Understand what constitutes good practice in designing a sample survey, an experiment, and an observational study.

HS.D.1.f Understand issues of bias and confounding variables in a study and their implications for interpretation.

**HS.D.2 Analyze Data and Interpret Results: Students will represent and analyze the data and interpret the results.**

HS.D.2.a Identify appropriate ways to summarize and then represent the distribution of univariate data and bivariate data through the construction of histograms, dot plots, stem plots, box plots, cumulative relative frequency graphs, time plots, circle graphs, stacked bar graphs, and mosaic bar graphs by hand or with technology.

HS.D.2.b Describe the shape, identify any outliers, and determine the spread of a data set.

HS.D.2.c Select and determine the appropriate measure of center based on the shape of a distribution and/or the presence of outliers.

HS.D.2.d Recognize when a data set can be reasonably said to be normally distributed and draw conclusions about the data from the associated normal distribution.

HS.D.2.e Summarize categorical data for two categories in two-way frequency tables. Interpret relative frequencies in the context of the data and recognize possible associations and trends in the data.

HS.D.2.f Represent data on two quantitative variables on a scatter plot and describe how the variables are related.

HS.D.2.g Use technology to develop regression models for linear and non-linear data to predict unobserved outcomes. Interpret slope and y-intercept in the context of the problem.

HS.D.2.h Measure the strength of association using correlation coefficients for regression curves and interpret their meanings for the model.

HS.D.2.i Use residuals and residual plots to judge the quality of a regression model.

HS.D.2.j Recognize and explain when arguments based on data confuse correlation with causation.

HS.D.2.k Understand what constitutes statistical significance. Interpret statistical significance in the context of a situation and answer investigative questions appropriately.

HS.D.2.l Use probability as a tool for assessing risk and for informed decision making by interpreting P-values.

**HS.D.2 Analyze Data and Interpret Results: Students will represent and analyze the data and interpret the results.**

HS.D.3.a Describe events as subsets of a sample space using characteristics of the outcomes or as unions, intersections, or complements of other events.

HS.D.3.b Explain independent versus dependent probability of an event.

HS.D.3.c Determine when order in counting matters and use permutations and combinations to compute probabilities of events accordingly.

HS.D.3.d Determine whether or not events are mutually exclusive (disjoint) and calculate their probabilities in either case.

HS.D.3.e Recognize and explain the concepts of conditional probability in everyday language and everyday situations.

# High School Advanced Topics Standards

## Mathematical Processes

To develop essential mathematical habits of mind, mathematically proficient students:

<p>Make sense of problems and persevere in <b>solving</b> them.</p> 	<p><b>Reason</b> quantitatively and abstractly and consider the reasoning of others.</p> 	<p>Create and use <b>representations</b> to organize, record, and communicate mathematical ideas.</p> 	<p>Analyze mathematical relationships to <b>connect</b> mathematical ideas.</p> 	<p>Explain and justify mathematical ideas using precise mathematical language in written or oral communication.</p> 
<b>PROBLEM SOLVING</b>	<b>REASONING</b>	<b>REPRESENTATIONS</b>	<b>CONNECTIONS</b>	<b>COMMUNICATION</b>

**NUMBER:** Students will solve problems and reason with number concepts using multiple representations, make connections within math and across disciplines, and communicate their ideas.

**AT.N.1 Estimation and Technology:** Students will use estimation strategies and technology to reason, to solve problems, and to make connections within mathematics and across disciplines.

AT.N.1.a Use domain and range restrictions to apply an appropriate viewing window while using graphing technology.

AT.N.1.b Compare and contrast radians and degrees as measures of angles and the reason graphing utilities tend to use radians as the default setting.

**AT.N.2 Sets and Operations: Students will compare and contrast subsets and perform operations with subsets of the complex number system to reason and to solve problems.**

AT.N.2.a Perform arithmetic operations with complex numbers.

AT.N.2.b Represent complex numbers and their operations in the complex plane.

AT.N.2.c Use complex numbers in polynomial identities and equations.

AT.N.2.d Represent quantities using bases other than decimal such as binary (base 2) or hexadecimal (base 16) and convert numbers to and from base 10.

AT.N.2.e Explain modular arithmetic and its role in computer programming.

AT.N.2.f Represent and model vector quantities.

AT.N.2.g Perform operations on vectors.

AT.N.2.h Perform operations on matrices and use matrices in applications.

**AT.N.3 Interpretation and Sense Making: Students will reason abstractly and quantitatively using units to solve problems and interpret results in context.**

AT.N.3.a Use vectors to communicate the geometric relationships between complex numbers in the complex plane.

**ALGEBRA: Students will solve problems and reason with algebra using multiple representations, make connections within math and across disciplines, and communicate their ideas.**

**AT.A.1 Algebraic Relationships: Students will demonstrate and represent relationships with functions.**

AT.A.1.a Analyze and graph nonlinear functions (trigonometric, rational, higher-order polynomials, logarithmic, and piecewise) and relations (conic sections) using their points of interest and graphing technology.

AT.A.1.b Use the unit circle to define the trigonometric functions on multiples of known angles (positive and negative multiples of 30 and 45 degrees or  $\pi/6$  and  $\pi/4$ ).

AT.A.1.c Given a function, list the sequence of algebraic transformations that changes a parent function to the given function.

AT.A.1.d Define the radian unit of measure and its relationship with degrees.

**AT.A.2 Algebraic Processes: Students will apply the operational properties when evaluating nonlinear expressions and solving nonlinear equations and inequalities.**

AT.A.2.a Explain symmetry of functions and determine whether a function is odd, even, or neither.

AT.A.2.b Represent, interpret, and analyze inverses of functions algebraically and graphically using domain restrictions when necessary.

AT.A.2.c Write equations of nonlinear functions (trigonometric, rational, higher-order polynomials, logarithmic and piecewise) using points of interest of the function.

AT.A.2.d Convert between radian and degree measures of an angle.

AT.A.2.e Use limits to describe the behavior of a function near its asymptotes and removable discontinuities.

**AT.A.3 Applications: Students will solve authentic problems using nonlinear functions and relations.**

AT.A.3.a Analyze and model authentic situations using various non-linear representations and relations with appropriate technology.

AT.A.3.b Analyze and model authentic application situations using various non-linear representations and relations with appropriate technology.

**GEOMETRY: Students will solve problems and reason with geometry using multiple representations, make connections within math and across disciplines, and communicate their ideas.**

**TOOLS: Students will sketch, draw, and construct appropriate representations using a variety of tools and methods which may include ruler/straight edge, protractor, compass, reflective devices, paper folding, or dynamic geometric software.**

**AT.G.1 Attributes: Students will identify and describe geometric attributes, apply properties and theorems, and create two-dimensional shapes.**

AT.G.1.a Apply the Law of Sines and the Law of Cosines to find unknown measures in triangles.

**AT.G.2 Attributes: Students will identify and describe geometric attributes, apply properties and theorems, and create three-dimensional shapes.**

AT.G.2.a Determine the three-dimensional object created by rotating or revolving a two-dimensional object about an axis.

AT.G.2.b Determine the shape of a two-dimensional cross-section of a three-dimensional object.

AT.G.2.c Use Cavalieri's Principle to determine volume of three-dimensional figures.

**AT.G.3 Coordinate Geometry and Transformations: Students will demonstrate and represent location, orientation, and relationships on the coordinate plane.**

AT.G.3.a Identify symmetry properties of a function (e.g., axis of symmetry of a parabola) and know the connection between its symmetry properties and specific transformations.

AT.G.3.b Recognize that translations can be described in terms of vectors.

AT.G.3.c Find the images and preimages of transformations of a point, shape, or relation on the coordinate plane, where transformations include the following compositions: reflections about lines of any rational slope passing through the origins, dilations about the origin by any positive scale factor, and translations.

AT.G.3.d Explain the focus-directrix construction of a parabola and derive the equation of a parabola from focus and directrix for a parabola whose axis of symmetry is a coordinate axis.

**AT.G.4 Logic and Proof: Students will use geometric definitions and theorems to reason abstractly and quantitatively.**

AT.G.4.a Use known definitions and results in informal argumentation to construct logical arguments.

AT.G.4.b Distinguish between empirical reasoning, examples, and deductive reasoning, as well as informal and formal reasoning.

AT.G.4.c Evaluate the deductive consequences of alternative definitions of known objects (e.g., whether a trapezoid is defined as a quadrilateral with exactly one pair of parallel sides or defined as at least one pair of parallel sides).

**DATA: Students will solve problems and reason with data/probability using multiple representations, make connections within math and across disciplines, and communicate their ideas.**

**AT.D.1 Data Collection and Statistical Methods: Students will formulate statistical investigative questions, collect data, and organize data.**

AT.D.1.a Explain what constitutes good practice in designing a sample survey, an experiment, and an observational study.

AT.D.1.b Explain the use of randomization to reduce the influence of confounding or lurking variables.

AT.D.1.c Explain issues of bias and confounding variables in a study and their implications for interpretation.

AT.D.1.d Demonstrate knowledge of the role sampling distributions play in the estimation of an unknown population parameter through the use of appropriate sampling techniques.

**AT.D.2 Analyze Data and Interpret Results: Students will represent and analyze the data and interpret the results.**

AT.D.2.a Determine when a data set can be reasonably said to be normally distributed and draw conclusions about the data from the associated normal distribution.

AT.D.2.b Use technology to develop regression models for linear and non-linear data to predict unobserved

outcomes. Apply algebraic transformations to non-linear data to generate a linearized data set and employ linear regression techniques to analyze the non-linear data set.

**AT.D.3 Probability: Students will interpret and apply concepts of probability.**

AT.D.3.a Weigh the possible outcomes of a decision by assigning probabilities to payoff values and finding expected values. Interpret the expected value as the mean of a probability distribution.

AT.D.3.b Communicate what constitutes statistical significance. Interpret statistical significance in the context of a situation and answer investigative questions appropriately.

AT.D.3.c Use data to compare two groups, describe sample variability, and decide if differences between parameters are significant based on the statistics.

AT.D.3.d Use probability as a tool for assessing risk and for informed decision making by computing and interpreting P-values.

AT.D.3.e Use confidence intervals to estimate an unknown population parameter.

**5. Clarks Baseball/Softball Program**

## Clarks Baseball/Softball Program & High Plains Community Schools

- HPC Superintendent, BOE Facility & Transportation Committee, Clarks Ball Board Representative, Clarks Business Representative will meet annually in the Spring to discuss upcoming projects, prioritize projects, and review responsibilities of both entities.
- The school currently mows and cares for the grass areas of the 2 fields, as well as weed control applications & watering.
- The school currently carries liability insurance.
- The school currently pays the electricity, water, & sewage bills.

<b>Clarks Ball Program Responsibilities:</b>	<b>How Often?</b>
Ball Fields, Grandstands, & Dugouts <ul style="list-style-type: none"> <li>● Keep areas well maintained, including picking up &amp; disposing of all debris</li> <li>● Chalk &amp; drag fields, dampen if necessary</li> <li>● Empty all trash cans in the dumpster</li> <li>● Shut off lights</li> <li>● Contact principal for needed repairs, including holes in the grassy areas</li> </ul>	Yearly & After Each Ball Game or Practice
Grants <ul style="list-style-type: none"> <li>● Apply for grants to continue to build the program</li> </ul>	Yearly
Concession Stand & Outdoor Restrooms <ul style="list-style-type: none"> <li>● Provide own concession stand items (ie.drinks &amp; food)</li> <li>● Clean, organize, &amp; restock</li> <li>● Empty all trash cans in the dumpster</li> <li>● Shut off lights &amp; lock up facilities</li> <li>● Help the school maintain structure</li> <li>● Contact building principal for paper products &amp; maintenance/repairs as needed in the restrooms</li> </ul>	After Each Game
Damage & Destruction of Property and Injuries <ul style="list-style-type: none"> <li>● Contact &amp; work with the building principal to fix/repair the damaged item(s)</li> <li>● Contact the building principal or superintendent with any injuries or incidents that happen on the property</li> </ul>	At Once

The Clarks Baseball/Softball program will abide by Board of Education policy 3014. The Clarks Baseball/Softball program will complete a General Facility Use Application & review it yearly thereafter.

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HPC Superintendent & Date

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Ball Board Representative & Date

**6. Consider and Approve Tree Removal Quotes for Polk**



# S&S Tree Service LLC

Lane Stevens  
Business Number 402-765-0358  
Polk, Ne 68654  
P.O. Box 42  
☎ 402-765-0358  
☐ 402-366-3153  
treeservicellc21@gmail.com

ESTIMATE

EST0073

DATE

07/19/2022

TOTAL

USD \$5,500.00

TO

## High Plains Community School

Kim Beran  
☐ 3083794099  
kberan@hpcstorm.org

DESCRIPTION	RATE	QTY	AMOUNT
<p><del>Removing the 4 hazardous trees and lightly trimming the 3 trees in front of the west building</del>            This includes me cleaning up after the storm awhile back.</p>	\$5,500.00	1	\$5,500.00
<p>Adding all the extra trimming in the playground area etc. and removing the big tree by the sidewalk            I'd be somewhere around <del>\$2,500-\$3,500</del> more if you wanted to do it all at once</p>	\$0.00	1	\$0.00

TOTAL ~~USD \$5,500.00~~

\$8350

If you have any further questions or this is something you would like to follow through with please give me a call or text at (402)-366-3153.

Thank you and have a great day!

DATE SIGNED  
07/19/2022

106002

~~Statement~~ Bid

DATE

Polk School

TERMS

### Sperling Tree Service

Remove Four trees  
 South side of Building  
 Grind stumps - complete  
 clean-up - - 4350.<sup>00</sup>

*trimming  
Quoted*

Remove Large Hackberry  
 on North side & Grind stump  
 complete clean-up 1850.<sup>00</sup>

*5850*

Total For All 5 Trees +  
 Stumps 6200.<sup>00</sup>

*Add*

Trim up 3 Trees 1500 -

\$9200.<sup>00</sup>

~~\$7700.<sup>00</sup>~~

PERCENT	OVER 30 DAYS	OVER 60 DAYS	TOTAL AMOUNT
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**7. Consider and Approve Student Handbook Update (notice of non-discrimination)**

availability of the free and reduced meal program and/or establish payment plans and due dates by telephone, e-mail, or other written or oral communication. If these collection efforts are unsuccessful, the school district may pursue any other methods to collect delinquent debt as allowed by law.

Collection efforts may continue into a new school year.

### **Notice of Non-discrimination**

**Nondiscrimination Statement** In accordance with Federal civil rights law and U.S. Department of Agriculture (USDA) civil rights regulations and policies, the USDA, its Agencies, offices, and employees, and institutions participating in or administering USDA programs are prohibited from discriminating based on race, color, national origin, sex (including gender identity and sexual orientation), disability, age, or reprisal or retaliation for prior civil rights activity in any program or activity conducted or funded by USDA. Persons with disabilities who require alternative means of communication for program information (e.g. Braille, large print, audiotape, American Sign Language, etc.), should contact the Agency (State or local) where they applied for benefits. Individuals who are deaf, hard of hearing or have speech disabilities may contact USDA through the Federal Relay Service at (800) 877-8339. Additionally, program information may be made available in languages other than English. To file a program complaint of discrimination, complete the USDA Program Discrimination Complaint Form, (AD-3027) found online at: [http://www.ascr.usda.gov/complaint\\_filing\\_cust.html](http://www.ascr.usda.gov/complaint_filing_cust.html), and at any USDA office, or write a letter addressed to USDA and provide in the letter all of the information requested in the form. To request a copy of the complaint form, call (866) 632-9992.

Submit your completed form or letter to USDA by: (1)Mail: U.S. Department of Agriculture Office of the Assistant Secretary for Civil Rights 1400 Independence Avenue, SW Washington, D.C. 20250-9410 (2)Fax: (202) 690-7442; or (3)Email: [program.intake@usda.gov](mailto:program.intake@usda.gov) This institution is an equal opportunity provider.

### **Field Trips**

Classes occasionally take field trips off school property for educational enrichment. A student's parent, or "caregiver" as that term is defined in the Nebraska Strengthening Families Act, must authorize a student to participate in a field trip by signing a permission slip and providing it to the school before the field trip. Students who have not completed classroom work on time may not be allowed to attend field trips. Students must comply with the student code of conduct, any applicable extracurricular conduct codes, and all directives by trip chaperones.

### **First-Aid**

First-aid items may only be used by school staff. Students who need first aid should ask for assistance from their classroom teacher or the nearest staff member.

## **8. Administrative Reports**

### **8.1. Superintendent Beran**

## Notice of Special Hearing To Set Final Tax Request

High Plains Community Schools (720075) in Polk County, Nebraska

PUBLIC NOTICE is hereby given, in compliance with the provisions of State Statute Section 77-1632, that the governing body will meet on the day of, 2022 at o'clock , at for the purpose of hearing support, opposition, criticism, suggestions or observations of taxpayers relating to setting the final tax request.

	2021-2022	2022-2023	Change
Property Valuations	830,261,178	860,048,961	4%

### 2021-2022 Budget Information

### 2022-2023 Budget Information

Fund	2021-2022 Operating Budget	2021-2022 Property Tax Request	2021 Tax Rate	Property Tax Rate (2021-2022 Request Divided By 2022 Valuation)	2022-2023 Operating Budget	2022-2023 Proposed Property Tax Request	Proposed 2022 Tax Rate	Change in Tax Rate	Change in Operating Budget
<b>General Fund</b>	6,085,432.00	4,175,011.00	0.502855	0.485439	6,740,000.00	4,435,050.00	0.515674	3%	11%
<b>Bond Fund(s) K - 12</b>			0.000000	0.000000	-	-	0.000000	#DIV/0!	0
<b>Bond Fund(s) K - 8</b>			0.000000	0.000000			0.000000	#DIV/0!	0
<b>Bond Fund(s) 9 - 12</b>			0.000000	0.000000			0.000000	#DIV/0!	0
<b>Bond Fund</b>			0.000000	0.000000			0.000000	#DIV/0!	0
<b>Special Building Fund</b>	3,903,408.00	1,161,616.00	0.139910	0.135064	2,871,400.00	1,161,616.00	0.135064	-3%	-26%
<b>Qualified Capital Purpose Undertaking Fund K - 12</b>			0.000000	0.000000	-	-	0.000000	#DIV/0!	0
<b>Qualified Capital Purpose Undertaking Fund K - 8</b>			0.000000	0.000000			0.000000	#DIV/0!	0
<b>Qualified Capital Purpose Undertaking Fund 9 - 12</b>			0.000000	0.000000			0.000000	#DIV/0!	0
<b>Total</b>	9,988,840.00	5,336,627.00	0.642765	0.620503	9,611,400.00	5,596,666.00	0.650738	1%	-4%

# Drivers Education Class Proposal

4<sup>th</sup> September 2022

## OVERVIEW

A drivers education class is an important way to teach students various driving skills they may not be aware of or be able to learn on their own. A drivers education class at High Plains Community schools could be a great way to help our students learn the basics of driving, and help with the safety and independence of our students and safety of our communities.

## GOALS

1. Help our students learn better driving skills and be safer while driving.
2. Have the school not incur most of the financial burden during this process.

## SPECIFICATIONS and Costs

Dorinda Brown, a non certified staff member, would be able and willing to complete a course at SCC in Lincoln to be a certified drivers education instructor.

**Cost for course:** \$499.00 plus \$450 for the books.

**Time involved in course:** 36 hours of classroom/ online (approx. 20 hours in person from what could be learned from SCC). Plus 24 hours of behind the wheel training.

### **Cost for car for students to drive:**

Tonniges Chevrolet loans vehicles out for drivers ed. Programs. The cost quoted to me includes the vehicle for a month, a service after it is brought back, and installation/removal of the passenger brake the brake is currently shared between Osceola and Cross County. The cost quoted is \$1500-1700 per year. This quote is a very rough estimate.

Friesen Chevrolet in Sutton also does a loan program for drivers ed. Courses their quote includes: brake installation/ removal, rental, and purchasing the passenger brake components.

Brake install/ removal: ~ \$200

Rental \$45/ day plus \$0.25/ mile

Brake purchase: ~\$500 (We would own the brake, and they would just install and remove each year)

**HPC School Board Meeting**  
**Mrs. Beran's Principal Report**  
**Date: Sept. 13, 2022**

The mission of the High Plains Community Schools is to provide an educational environment which develops citizens who are lifelong learners and can contribute to a global society.  
Every Student! Every Day! Every Way!

**[HPC BOE Goals](#)**

- Goal I: Academic Success**  
**Goal II: District Culture**  
**Goal III: Well-Being of Staff & Students**  
**Goal IV: Facilities & Transportation**

**Important Dates:**

- Sept. 27th at 6:30 p.m. Joint Public Hearing at Osceola Civic Center
- Sept. 28th at 6:30 p.m. Budget Hearing & regular BOE meeting to follow at Polk BOE room
- Tentative Dates for Community Coffees
  - Oct. 11th at Clarks
  - Oct. 14th at Hordville
  - Oct. 17th at Polk
- Nov. 16th-18th State Education Conference in Omaha
  - I need to know who's planning on attending to register, dinner reservations, & booking hotel

**Goal I: Academic Success:**

- [School Improvement Plan](#)
  - Visit is Nov. 3 & 4
  - Continue focusing on literacy, add vocabulary & continue focusing on tier 1 (all instruction)

**Goal II: District Culture:**

- Homecoming Celebration in Clarks
  - Amazing to see the school spirit with staff, students, & the community

**Goal III: Well-Being of Staff & Students:**

- Emailed Title IX training, BOE is highly recommended to be familiar with Title IX
- BOE suicide prevention training? Can email it
  - We had positive feedback from the on-site training

**Goal IV: Facilities & Transportation:**

- Review tax asking amount (attached to my report)
- Driver's education summary from Dorinda Brown
- Update on cameras & DVR
  - Per ESU Tech- "You have about 12 cameras that are pretty much offline. They are working, but they are not recording and there is not an easy way to allow them to be viewed."
  - Will need to follow Davis Bacon when using ESSER funds. Spoke with Diode and won't affect quotes by much

## 8.2. Principal Fisher

- GREAT START TO THE SCHOOL YEAR - Things have been running smoothly with minimal issues. The staff and students have done an amazing job with adapting to new procedures and guidelines.
- Cell phone policy - Happy to announce that we have had minimal issues with the cell phones within the classroom. There have been only one incident where a cell phone got confiscated, but the overall opinion and support from the community have been very positive!
- Career Pathways - Mrs. Helgoth and I will be exploring utilizing YouScience at HPC. It's an online platform that is designed around directing individuals towards a career pathway that matches their skills and interests. We have a professional development/training coming up soon to determine next steps and will be working with the counselors on how to utilize it effectively for our students.
- Procedures Updates - There were a couple of areas of improvement when it came to attendance and safety procedures. A message went out to the community on the process for having a student leave the building. Students need to be accounted for in case of an emergency. We also updated our evacuation procedures when it comes to fire drills. We have designed an isolated area to improve communication with all the buildings involved.
- Homecoming - Homecoming has officially been completed. The culture of the building was extremely high. Staff and students were all encouraged to participate. Overall, it was a positive experience with a couple of tweaks to be made in the future.
- District Assessments - I am in the process of signing K-11 students up for MAP testing. This will be accomplished over the next couple of weeks to establish growth and where we can improve instructionally.
- Safety & security - Along with attendance, majority of the lockers in each building have locks on their locker. This is a hope to improve safety and security for all individuals in the building.
- Counselor's Corner - Ms. Keenan and Mr. Kucera have developed a counselor's corner site on the school's website. This is a great resource for students to receive the necessary information and/or materials needed. Such information will include scholarship information, visitation, etc.

### **8.3. Principal Helgoth**

**High Plains Community Board of Education Meeting**  
**Mrs. Helgoth's Elementary Report**

**Date: 9/13/22**

*The mission of the High Plains Community Schools is to provide an educational environment which develops citizens who are lifelong learners and can contribute to a global society.  
Every Student! Every Day! Every Way!*

**1. Elementary Parent Teacher Conferences**

- a. September 28th 2:00pm to 8:00pm
- b. September 30th from 8:00am to 4:00pm
- c. Conferences are offered three ways: in-person, via Zoom, or telephone
- d. Online sign up for parents to choose time and share preferred conference connection.

**2. Academic Beginning of the Year**

- a. Beginning of the year reading screeners have been completed.
- b. Beginning of the year MAP assessments are taking place now.
- c. Data is used in determining student supports in their Individualized Reading Improvement Plans which are part of the Nebraska Reads Act.
- d. ESU staff has joined us to get started in our new Social Studies curriculum, and also begin learning the new state English Language Arts standards.

**3. Building Storm Pride**

- a. All K-6 elementary students attended the first junior high home volleyball game during the school day.
- b. Students were excited to participate and joined in whole-school cheers to support our volleyball team.
- c. With all staff supervision in the gym, our elementary staff was able to help with the games as officials and line keepers.
- d. Feedback from students, staff, coaches, and community members about the students attending and participating as Storm fans continues to be positive!

**4. Homecoming**

- a. We are planning our 2nd annual Homecoming Parade on September 9th.
- b. All students will march and participate in the whole school pep rally.
- c. Youth, Jr. High, and Varsity athletic teams and clubs are being recognized.
- d. Class cheers have become a fun part of the event at the elementary level.
- e. A balloon release is planned for the end of the rally.

#### **8.4. A.D. Wood**

ACTIVITIES DIRECTOR'S REPORT  
September, 2022

Our Sportsmanship rally on August 15<sup>th</sup> was a success. I have seen a change.

Scoreboard update – Thanks to Kraig Urkoski, Terry Carlstrom, and the Strobels for helping in getting the scoreboard up and running. The last I heard from Nevco as what they are offering for their mistake:

**“If you choose to keep this equipment “as is” with the patch, we can credit you \$735.94 which was the initial freight charges. We will also extended the warranty from 5 years to 7 years to make sure you are covered if the damage problems down the road.**

**If you choose to have the damaged section replaced there will be no monetary credit. Nevco will replace the damaged section of scoreboard and incur the freight cost to ship the new section only. No other costs incurred due to the damage including labor, equipment rental, etc will be Nevco’s responsibility.**

Homecoming was August 5<sup>th</sup> = 10<sup>th</sup>. The kids did hall decorations by class, had dress up days with a different theme each day, community pep rally in Clarks and homecoming dance Friday after the game.

Softball game that we will be hosting is going to be September 20<sup>th</sup>.

All other sports are up and running. A lot of great things going on. I really appreciate the coaches and sponsors for all the time they put in. I would like to thank everyone else that volunteers their time to do lines, books and clock, as well as the ticket takers, chain gangs and the crew who paints our lines each day. A special thank you also to all the custodians for help make sure these activities go smooth. Couldn't do it without any of them.

Greg Wood  
High Plains Community  
Activities Director

**9. Policy Review**

**9.1. Consider & Review Policy 6020 Multicultural Education (no changes)**

**6020**  
**Multicultural Education**

In every curriculum area and at all grades, the school district will provide programs which foster and develop an appreciation and understanding of the racial, ethnic, and cultural heritage of all students. These programs will allow students to explore the history and contributions made by various ethnic groups and will emphasize human relations, sensitivity toward all races, and the rich diversity of the population of the United States. The district's multicultural education curriculum will be consistent with the district's responsibility under state law to ensure that youth are given the opportunity to become competent, responsible, patriotic, and civil citizens. The district's civics curriculum and multicultural curriculum will work together to make students fully aware of the liberties, opportunities, and advantages we possess and the sacrifices and struggles through whose efforts these benefits were gained.

**Philosophy, Mission, and Program Goals.** The school district respects and appreciates cultural diversity and seeks to promote the understanding of unique cultural and ethnic heritage. The district will promote the development of a culturally responsible and responsive curriculum. The school district's program will explore the attitudes, skills, and knowledge necessary to function in various cultures.

**District Guides, Frameworks, or Standards.** Appropriate district staff and/or committee(s) will review the school district curriculum guides, frameworks, or standards to determine that they appropriately incorporate multicultural education.

**Selecting Appropriate Instructional Materials.** Appropriate school district staff and/or committee(s) will review instructional materials and make a recommendation regarding those that are appropriate for the school district's multicultural education program.

**Providing Staff Development.** Appropriate school district staff and/or committee(s) will review the staff development provided for administrators, teachers, and support staff to determine that it includes appropriate multicultural education that is consistent with school district and program goals.

**Periodic Assessment.** Appropriate school district staff and/or committee(s) will periodically review the school district's multicultural education program by reviewing the criteria in this policy to assess whether the school district is adequately and appropriately incorporating multicultural education in all curriculum areas in all grades.

**Annual Status Report.** The superintendent will provide the board with a report on the status of the school district's multicultural education program annually.

Adopted on: 6/12/17

Revised on: 12/13/21

Reviewed on: \_\_9/13/22\_\_\_\_\_

**9.2. Consider and Approve Policy 6037 Selection and Review of Library Media  
(New Policy)**

**6037**  
**Selection and Review of Library Media**

The board approves curriculum and curriculum-related materials for the district with input from administrators and staff. Those processes are covered in other board policies. Staff members seeking to procure materials for use during instruction must follow board policy, practices, and directives. Those items are not covered by this policy.

The district procures library books and other media available to students that are not part of a specific class or curriculum. For purposes of this policy, those will be called library materials. This policy addresses the selection and review of library materials, regardless of their source. This policy applies regardless of whether library materials are purchased using district funds, donated, or shared at no cost to the district.

**No Right to Materials.** The board supports having excellent educational opportunities for students, including availability of library materials used to enrich the educational experience. However, the board and administration are responsible for considering materials based on a variety of factors and legal obligations. There is no right to force any material to be included or excluded. Staff requesting library materials do so only within the course and scope of their employment with the district.

**Requested Review of Library Materials.** A concerned parent of a current student or patron living within the school district boundaries may request the review of a specific library material (*i.e.*, a specific book, magazine, etc.) or portion of a specific library material. The parent or patron must first discuss their concern with the building principal and explain their concern regarding the library material. If there is no principal assigned to that building, the parent or patron should discuss their concern with the superintendent. The board believes most concerns will be resolved in this manner.

If the parent or patron is dissatisfied after the informal review and discussion with the relevant administrator, they may request a review in writing. To request a review, the individual must complete the Library Material Review Request form and submit it to the superintendent.

The superintendent will review the request within a reasonable time after receiving it. The superintendent may consult with the school's librarian or media specialist, staff, and legal counsel at his or her discretion. The superintendent may decide to remove the material, keep the material, restrict access to the material to students based on age or grade level, or make any other determination the superintendent deems appropriate. The

superintendent's decision regarding the review will be communicated to the requester in writing.

The decision of the superintendent is final, and the board will not hear any appeal regarding the review of library material.

**Additional Rules for Library Media Review.** Unless the superintendent decides otherwise, the library material will remain in circulation while a review is pending. Unless otherwise required by law, no library material will be reviewed again within 4 years after a requested review is completed. Any parent or patron requesting review of multiple library materials may only request a maximum of 5 materials to be reviewed at one time, and a new request cannot be submitted until the prior review is completed and notice of the determination is provided to the requesting party. Nothing in this policy prohibits the superintendent or their designee from reviewing library material outside of the review process contained in this policy and taking any action the superintendent or their designee deems appropriate.

Adopted on: \_\_\_\_\_9/13/22\_\_\_\_\_

Revised on: \_\_\_\_\_

Reviewed on: \_\_\_\_\_

# Library Material Review Request Form

Only a patron of the district or parent of a current student may request review of a library material. Prior to submitting a request, please review the board's policy on Selection and Review of Library Materials. The policy is located on the district's website, or you can request a copy via email from the superintendent.

**Name:** \_\_\_\_\_ **Phone:** \_\_\_\_\_

**Address:** \_\_\_\_\_

Written requests to review library materials will not be considered unless the requester identifies the specific material in question and first discusses their concern with the appropriate administrator as required by board policy. Please list the date of the conversation with the administrator: \_\_\_\_\_

**Title of Material:** \_\_\_\_\_

**Author/Publisher:** \_\_\_\_\_

**Type of Material (book, magazine, video, etc.):** \_\_\_\_\_

**Reason for Requesting Review (attach additional page if necessary):**

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Please list the specific portion of the material you find objectionable, including specific page references, sections, volumes, etc.:**

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Signature:** \_\_\_\_\_

For District Use Only	
Date Received:	_____
Received By:	_____
Reviewed on:	_____
Date Determination Sent to Requester:	_____

[DISTRICT LETTERHEAD]

[DATE]

[NAME OF REQUESTER]

[ADDRESS]

[EMAIL ADDRESS (if sent electronically)]

Dear [NAME OF REQUESTER],

On [DATE], the district received your request to review [INSERT REQUESTED MATERIAL]. After considering your concerns and reviewing the material, we have made the following determination.

[EXPLAIN DETERMINATION: Remain in circulation; removed from circulation; remain in circulation with restrictions (only accessible by students of a certain age, grade, etc.)].

[OPTIONAL: INCLUDE RATIONALE. For requests based on sensitive topics like religion, sex, gender, etc., we recommend receiving legal advice.]

There is no appeal from this review. The district does not place restrictions on students who can access library materials on an individual basis. Some materials are limited generally based on age, grade level, and expected student ability. If you do not want your student to access any particular material, please discuss that with your student and set that expectation as the parent or guardian. If your student has checked out a book or material you do not approve, I am happy to work with you and your student's teacher to return that material and check out something else.

Sincerely,

[NAME],  
Superintendent

**10. Consider and Approve Financial Reports**

**10.1. General Fund Report**

August Receipts 2022

Financial Statement	First State SN	First State MM	Cornerstone MM	Cornerstone Pay	CD Bank of Clarks
Bank Balance/July	\$212,412.82	\$2,853,100.06	\$69,496.90	\$15,738.05	<b>\$83,588.26</b>
Deposits for month	\$797,000.00	\$146,283.88	\$0.00	\$142,726.28	
Interest for month	\$45.14	\$938.56	\$18.47	\$0.00	
Total available	\$1,009,457.96	\$3,000,322.50	\$69,515.37	\$158,464.33	
Disbursements	\$740,348.65	\$797,000.00		\$142,726.28	
Bank Balance	\$269,109.31	\$2,203,322.50	\$69,515.37	\$15,738.05	
Outstanding Checks	\$52,937.63				
Bank Balance	<b>\$216,171.68</b>	<b>\$2,203,322.50</b>	<b>\$69,515.37</b>	<b>\$15,738.05</b>	
Certificates of Deposit		<b>81,001.87</b>			

Total Money available **\$2,669,337.73**  
 September Disbursements **\$441,867.41**

Receipts:	Budget	August	Last mo Y-T-D	Year to Date	
1100 Taxes	\$4,133,261.00	\$32,263.99	\$3,850,507.44	\$3,882,771.43	
1115 Carline tax	\$9,200.00	\$0.00	\$8,666.07	\$8,666.07	
1120 Public Power District Sales	\$16,800.00	\$0.00	\$14,949.11	\$14,949.11	in" lieu 5%" (3300)
1125 Motor Vehicle Taxes	\$195,500.00	\$11,312.46	\$182,639.99	\$193,952.45	
1370 Pre-School Tuition	\$0.00	\$0.00	\$240.00	\$240.00	
1510 Interest	\$7,000.00	\$1,221.32	\$6,581.94	\$7,803.26	
1911 Local License Fees	\$4,000.00	\$0.00	\$2,160.00	\$2,160.00	
1925 Categorical Grants	\$7,000.00	\$500.00	\$500.00	\$1,000.00	
1990 Other Local Receipts	\$44,000.00	\$627.89	\$18,336.55	\$18,964.44	
2110 County Fines	\$17,500.00	\$2,713.13	\$20,334.42	\$23,047.55	
2130 Other Receipts	\$0.00	\$0.00	\$31.68	\$31.68	
2210 ESU receipts	\$950.00	\$0.00	\$0.00	\$0.00	
3110 State Aid	\$25,000.00	\$0.00	\$34,109.00	\$34,109.00	
3120 Sp. Ed. Program	\$210,800.00	\$0.00	\$233,286.00	\$233,286.00	
3125 Sp. Ed. Transportation	\$6,500.00	\$0.00	\$8,330.00	\$8,330.00	
3130 Homestead Exemption	\$22,800.00	\$4,336.49	\$17,259.97	\$21,596.46	
3131 Property Tax Credit	\$409,500.00	\$0.00	\$470,494.53	\$470,494.53	
3132 Personal Property Tax Credit	\$90,600.00	\$0.00	\$0.00	\$0.00	
3180 Pro-Rata Vehicle	\$9,200.00	\$1,011.93	\$8,616.32	\$9,628.25	
3400 State Apportionment	\$28,500.00	\$0.00	\$28,177.24	\$28,177.24	
3512 Dist Ed Incentive	\$1,800.00	\$0.00	\$844.28	\$844.28	
3535 High Ability Learners	\$3,000.00	\$0.00	\$2,342.00	\$2,342.00	
4310 REAP	\$30,000.00	\$39,820.11	\$19,781.00	\$59,601.11	
4418 PEAK	\$1,000.00	\$0.00	\$0.00	\$0.00	
4421 IDEA	\$0.00	\$11,390.00	\$0.00	\$11,390.00	
4422 IDEA ARP	\$0.00	\$931.00	\$0.00	\$931.00	
4505 Title	\$0.00	\$0.00	\$21,536.00	\$21,536.00	
4516 IDEA Preschool/Enrollment Pov	\$1,800.00	\$2,040.00	\$0.00	\$2,040.00	
4518 IDEA	\$0.00	\$36,153.00	\$102,146.00	\$138,299.00	
4521 IDEA Part B Prop Share	\$25,500.00	\$0.00	\$2,472.00	\$2,472.00	
4525 Grants	\$0.00	\$0.00	\$315.00	\$315.00	
4530 Grants	\$0.00	\$0.00	\$4,225.20	\$4,225.20	
4708 Medicaid	\$21,000.00	\$0.00	\$26,493.42	\$26,493.42	
4709 NASB Medicaid	\$3,500.00	\$0.00	\$0.00	\$0.00	
4997 ESSRS II	\$125,000.00	\$0.00	\$129,605.00	\$129,605.00	
4998 ESSRS III	\$290,000.00	\$0.00	\$0.00	\$0.00	
5300 Sale of Property	\$10,000.00	\$0.00	\$21.00	\$21.00	
6990 PBIS	\$0.00	\$0.00	\$2,250.00	\$2,250.00	
<b>TOTAL</b>	<b>\$5,750,711.00</b>	<b>\$144,321.32</b>	<b>\$5,217,251.16</b>	<b>\$5,361,572.48</b>	
3100 Hot Lunch/Non Program	\$90,963.46	\$236.00	\$89,508.55	\$89,744.55	
				\$5,451,317.03	

Vendor Name	Invoice Number	Description	Amount
Checking Account ID 01	Fund Number 01	General Fund	
APPLE INC.	AH399093888	tech supplies	299.00
Total APPLE INC.			<u>299.00</u>
AURORA NEWS REGISTER	20220907	monthly board advertising	165.99
Total AURORA NEWS REGISTER			<u>165.99</u>
B. MARIE'S, LLC	100003921	Alspaugh baby	54.47
Total B. MARIE'S, LLC			<u>54.47</u>
BLACK HILLS ENERGY	20220907	addition	110.26
Total BLACK HILLS ENERGY			<u>110.26</u>
BRANDENBURGER, SYDNEE	cpr	cpr	15.83
Total BRANDENBURGER, SYDNEE			<u>15.83</u>
CAPITAL ONE	20220907	custodial/BOE/supplies	47.62
Total CAPITAL ONE			<u>47.62</u>
CARL'S SKRAP	219647	JH trash pickup	165.00
CARL'S SKRAP	219648	hs trash pickup	200.00
Total CARL'S SKRAP			<u>365.00</u>
CAROLINA BIOLOGICAL	51880252RI	supplies Pekarek	63.99
Total CAROLINA BIOLOGICAL			<u>63.99</u>
CASH-WA DISTRUBUTING (CLARK)	13500977	coffee creamer	22.05
Total CASH-WA DISTRUBUTING (CLARK)			<u>22.05</u>
CDW GOVERNMENT INC	CG35111	lenovo thinking book	663.75
Total CDW GOVERNMENT INC			<u>663.75</u>
CENTRAL CITY MALL	20220908	supplies	1.09
Total CENTRAL CITY MALL			<u>1.09</u>
CENTRAL TRUE VALUE	A551110	keys	27.86
Total CENTRAL TRUE VALUE			<u>27.86</u>
CENTRAL VALLEY AG	aug 2022		4,440.02
Total CENTRAL VALLEY AG			<u>4,440.02</u>
CHALMERS, PHIL	Phil Chalmers GI	prof dev	875.00
Total CHALMERS, PHIL			<u>875.00</u>
CLARKS LUMBER	20220907	custodial Clarks	228.62
Total CLARKS LUMBER			<u>228.62</u>
COMPUTER HARDWARE INC	g19516	macbook repair	50.00
Total COMPUTER HARDWARE INC			<u>50.00</u>
CULLIGAN OF GRAND ISLAND	20220908	water supplies and cooler rental Clarks	279.00
Total CULLIGAN OF GRAND ISLAND			<u>279.00</u>

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Unposted; Batch Description September 2022 invoices-0001

User ID: TLB

Vendor Name	Invoice Number	Description	Amount
CULLIGAN of YORK	20220906	water supplies/cooler rental	273.50
Total CULLIGAN of YORK			273.50
EAKES OFFICE SOLUTIONS	8532450-0	desk-Mattox	676.61
Total EAKES OFFICE SOLUTIONS			676.61
ECONOMY HOMETOWN MARKET	20220906	supplies KFinkral	27.71
Total ECONOMY HOMETOWN MARKET			27.71
ESU 7 NETWORK SUPPORT	Lanman 8/22	lanman	6,500.00
ESU 7 NETWORK SUPPORT	Network ops 8/2022	newtork operations	1,950.00
ESU 7 NETWORK SUPPORT	network supp 8/22	network supplies	101.17
ESU 7 NETWORK SUPPORT	Synology/Seagate	synology/kit/seagate hard drives	2,146.12
Total ESU 7 NETWORK SUPPORT			10,697.29
FIRST NATIONAL CAPITAL MARKETS, INC	08262	financial fees	6,250.00
Total FIRST NATIONAL CAPITAL MARKETS, INC			6,250.00
FLATLAND MOBILE SERVICES	728093	bus 17	453.85
Total FLATLAND MOBILE SERVICES			453.85
FRANSSEN, LARRY	2014	bus drug tests	137.00
Total FRANSSEN, LARRY			137.00
FRIESEN CHEVROLET, INC.	705305	express 1 van key	111.13
Total FRIESEN CHEVROLET, INC.			111.13
FULL BLOOM	784	Buller baby	56.71
Total FULL BLOOM			56.71
GOPHER	in207686	DWilliams supplies	128.80
Total GOPHER			128.80
GRIZZLY INDUSTRIAL, INC	11010239-01	Shop equipment	2,579.00
Total GRIZZLY INDUSTRIAL, INC			2,579.00
HANS SERVICE, LLC	9516	sink/faucet/concession stand-Clarks	623.37
HANS SERVICE, LLC	9517	a/c check Clarks	521.63
Total HANS SERVICE, LLC			1,145.00
HATFIELD, JESSICA	Breakout EDU	supplies	99.00
Total HATFIELD, JESSICA			99.00
HEARTLAND COMMUNICATIONS LLC.	75194	services - HS	312.50
HEARTLAND COMMUNICATIONS LLC.	75195	services Clarks	562.50
HEARTLAND COMMUNICATIONS LLC.	75196	services - HS	250.00
Total HEARTLAND COMMUNICATIONS LLC.			1,125.00
HOMETOWN LEASING	Sept 2022	monthly copier lease fee	2,378.19
Total HOMETOWN LEASING			2,378.19
HOT LUNCH FUND	EOY board mtg	EOY board meeting food	19.68
HOT LUNCH FUND	staff cookies	staff cookies	3.75

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Unposted; Batch Description September 2022 invoices-0001

User ID: TLB

Vendor Name	Invoice Number	Description	Amount
HOT LUNCH FUND	staff mtg	staff meeting	3.00
Total HOT LUNCH FUND			<u>26.43</u>
HYDROSCAPE, LLC	4159	repair HS sprinklers	209.00
Total HYDROSCAPE, LLC			<u>209.00</u>
ISLAND SUPPLY WELDING CO	275010	supplies THofmann	24.80
Total ISLAND SUPPLY WELDING CO			<u>24.80</u>
KSB SCHOOL LAW	12525	legal fees	2,577.00
Total KSB SCHOOL LAW			<u>2,577.00</u>
KWIK STOP	Aug 2022	fuel	845.76
Total KWIK STOP			<u>845.76</u>
LIVESTOCKJUDGING.COM	3155	Ag software	200.00
Total LIVESTOCKJUDGING.COM			<u>200.00</u>
MCGRAW-HILL SCHOOL EDUCATION HOLDINGS, LLC	123711410001	sped science text books	217.06
MCGRAW-HILL SCHOOL EDUCATION HOLDINGS, LLC	123817626001	Biology textbooks Pekarek	530.81
Total MCGRAW-HILL SCHOOL EDUCATION HOLDINGS, LLC			<u>747.87</u>
MENARDS	46973	THofmann supplies	79.74
MENARDS	47898	supplies THofmann	626.08
Total MENARDS			<u>705.82</u>
Myer's Insurance Inc	3341	stock trailer	309.00
Total Myer's Insurance Inc			<u>309.00</u>
NORTHEAST NEBRASKA TELEPHONE COMPANY	20220908	telephone Clarks	206.78
Total NORTHEAST NEBRASKA TELEPHONE COMPANY			<u>206.78</u>
NRCSA	Mem 096	membership dues	850.00
Total NRCSA			<u>850.00</u>
ONE SOURCE	1528-20220831	background checks	330.00
Total ONE SOURCE			<u>330.00</u>
OSCEOLA PUBLIC SCHOOLS	Sept 2022 Spanish	Spanish teacher	3,416.67
Total OSCEOLA PUBLIC SCHOOLS			<u>3,416.67</u>
PETTY CASH FUND	Aug 2022	postage, 5th grade fieldtrip	354.04
Total PETTY CASH FUND			<u>354.04</u>
POLK COUNTY RPPD	20220906	monthly elec Clarks	121.63
POLK COUNTY RPPD	20220906-0001	monthly elec Clarks	2,003.07
POLK COUNTY RPPD	20220906-0002	monthly elec Clarks - ballfield	331.84
POLK COUNTY RPPD	20220906-0003	hwy 92 light	22.62
Total POLK COUNTY RPPD			<u>2,479.16</u>
POLK LIGHT & WATER DEPT	20220908	monthly light/water/sewer	6,234.07

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Unposted; Batch Description September 2022 invoices-0001.

User ID: TLB

Vendor Name	Invoice Number	Description	Amount
Total POLK LIGHT & WATER DEPT			<u>6,234.07</u>
PRESTOX (J.C. EHRLICH CO., INC.)	25795718	pest control P{olk	110.74
Total PRESTOX (J.C. EHRLICH CO., INC.)			<u>110.74</u>
PRINCIPAL LIFE INSURANCE	LTD Sept 2022	long term disability	374.43
Total PRINCIPAL LIFE INSURANCE			<u>374.43</u>
QUALITY SEW & VAC	0006018	supplies KFinkral	34.59
Total QUALITY SEW & VAC			<u>34.59</u>
REDMAN TURF SERVICE	2506	practice field	376.00
REDMAN TURF SERVICE	2826A	fertilizer	50.70
REDMAN TURF SERVICE	2850	reseeding	385.00
Total REDMAN TURF SERVICE			<u>811.70</u>
SAPP BROTHERS PETROLEUM	IN3921542	propane	845.00
Total SAPP BROTHERS PETROLEUM			<u>845.00</u>
STROMSBURG WATER & CONDIT	20220907	salt/repairs	472.00
Total STROMSBURG WATER & CONDIT			<u>472.00</u>
THEMES & VARIATIONS	128453	supplies-Gansebom	174.95
Total THEMES & VARIATIONS			<u>174.95</u>
TIME MANAGEMENT SYSTMS	274117	monthly timeclock fee	71.25
Total TIME MANAGEMENT SYSTMS			<u>71.25</u>
VILLAGE OF CLARKS	208117	monthly clarks	241.03
Total VILLAGE OF CLARKS			<u>241.03</u>
WINDSTREAM	20220906	JH bldg telephone	272.69
Total WINDSTREAM			<u>272.69</u>
WINDSTREAM	20220906	HS telephone line	140.11
Total WINDSTREAM			<u>140.11</u>
YODER, NORMAN	Safety plan review	safety plan review	548.72
Total YODER, NORMAN			<u>548.72</u>
Fund Number 01			<u>57,461.95</u>
Checking Account ID 01			<u>57,461.95</u>

Cornerstone	198,362.79
Activity fund	622.85
Aflac	162.43
Ameritas	495.08
BCBS	57,713.31
Cross County	1031.86
125 Plan	995.83
Hofmann HSA	313.28
NE Child Support Payment Ctr	718.00
EFTPS	70,119.56
NE Dept of Rev	10,182.04
NPERS	43,688.43
	<hr/>
	441,867.41

## 10.2. Nutrition Services Report

Fund: 06 Lunch Fund

<u>Account Number</u>	<u>Description</u>	<u>Revised Budget</u>	<u>During Month</u>	<u>To Date</u>	<u>% of Budget</u>	<u>Budget Balance</u>
06 1611	DAILY SALES-SCHOOL LUNCH PROGRAM	0.00	7,904.24	39,021.18	0.00	(39,021.18)
06 1613	DAILY SALES-SPECIAL MILK PROG	0.00	0.00	175.78	0.00	(175.78)
06 1620	DAILY SALES-NONREIMBURS PROG	0.00	0.00	11,829.39	0.00	(11,829.39)
06 1990	MISCELLANEOUS LOCAL REVENUE	0.00	0.00	2,000.00	0.00	(2,000.00)
Subtotal: LOCAL RECIEPTS		0.00	7,904.24	53,026.35	0.00	(53,026.35)
06 3200	GRANTS	0.00	0.00	15,806.64	0.00	(15,806.64)
Subtotal: STATE RECEIPTS		0.00	0.00	15,806.64	0.00	(15,806.64)
06 4210	FEDERAL NUTRITION PROGRAM	0.00	0.00	133,827.03	0.00	(133,827.03)
Subtotal: FEDERAL RECEIPTS		0.00	0.00	133,827.03	0.00	(133,827.03)
06 5200	TRANSFER FROM GENERAL FUND	0.00	20,000.00	30,000.00	0.00	(30,000.00)
Subtotal: NON-REVENUE RECEIPTS		0.00	20,000.00	30,000.00	0.00	(30,000.00)
Fund Total:		0.00	27,904.24	232,660.02	0.00	(232,660.02)

	<u>Revised Budget</u>	<u>During Month</u>	<u>To Date</u>	<u>% of Budget</u>	<u>Budget Balance</u>
Grand Total:	0.00	27,904.24	232,660.02	0.00	(232,660.02)

Hot lunch Bank

60 050.70

pending checks 2783.21

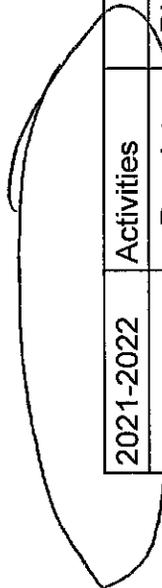
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57 267.49

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User ID: SE

Vendor Name	Invoice Number	Description	Amount
Checking Account ID 04	Fund Number 06	Lunch Fund	
CASH-WA DISTRIBUTING (FOOD-POLK)	113491693	Polk Food	81.00
CASH-WA DISTRIBUTING (FOOD-POLK)	13475123	Polk Food	512.86
CASH-WA DISTRIBUTING (FOOD-POLK)	13479600	Polk Food	845.40
CASH-WA DISTRIBUTING (FOOD-POLK)	13489187	Polk Food	336.10
CASH-WA DISTRIBUTING (FOOD-POLK)	13497864	Polk Food	626.20
CASH-WA DISTRIBUTING (FOOD-POLK)	D13483221	Polk Food	313.89
Total CASH-WA DISTRIBUTING (FOOD-POLK)			<u>2,715.45</u>
CASH-WA DISTRIBUTING (NON FOOD POLK)	13475124-1	Polk Non Food	99.95
CASH-WA DISTRIBUTING (NON FOOD POLK)	13489188	Polk Non Food	131.85
Total CASH-WA DISTRIBUTING (NON FOOD POLK)			<u>231.80</u>
CASH-WA DISTRIBUTING (NON FOOD-CLARKS)	13145931-1	Clarks non food	(184.10)
CASH-WA DISTRIBUTING (NON FOOD-CLARKS)	13474893	Clarks non food	217.40
CASH-WA DISTRIBUTING (NON FOOD-CLARKS)	13483220	Clarks non food	111.48
CASH-WA DISTRIBUTING (NON FOOD-CLARKS)	13492259	Clark Non Food	415.77
Total CASH-WA DISTRIBUTING (NON FOOD-CLARKS)			<u>560.55</u>
CASH-WA DISTRIBUTING (PRE_K)	13483219	PK Snacks	57.85
CASH-WA DISTRIBUTING (PRE_K)	CM3180319	PK Snacks	(3.83)
Total CASH-WA DISTRIBUTING (PRE_K)			<u>54.02</u>
CASH-WA DISTRUBUTING (CLARK)	13138596-1	Clarks Food	(22.05)
CASH-WA DISTRUBUTING (CLARK)	13474825	Clarks Food	857.92
CASH-WA DISTRUBUTING (CLARK)	13483218	Clarks Food	383.83
CASH-WA DISTRUBUTING (CLARK)	13492258	Clarks Food	409.28
CASH-WA DISTRUBUTING (CLARK)	CM3312070	Clarks Food	(8.23)
CASH-WA DISTRUBUTING (CLARK)	CM3314396	Clarks Food	(7.55)
CASH-WA DISTRUBUTING (CLARK)	CM3318176	Clarks Food	(22.90)
CASH-WA DISTRUBUTING (CLARK)	CM3319136	Clarks Food	(13.75)
CASH-WA DISTRUBUTING (CLARK)	D13479589	Clarks Food	148.38
CASH-WA DISTRUBUTING (CLARK)	D13489295	Clarks Food	46.20
Total CASH-WA DISTRUBUTING (CLARK)			<u>1,771.13</u>
CENTRAL NE REFRIGERATION	323167	Polk Dishwasher repair	692.83
Total CENTRAL NE REFRIGERATION			<u>692.83</u>
HPC GENERAL FUND	20220830	Kitchen Wages	236.00
Total HPC GENERAL FUND			<u>236.00</u>
Jaymar Business Forms, Inc	M69033	Hot Lunch Check Blanks	135.00
Total Jaymar Business Forms, Inc			<u>135.00</u>
US FOODS-GRAND ISLAND	3325502	Split Truck of Food	1,322.90
US FOODS-GRAND ISLAND	3492048	Clarks Food	358.78
US FOODS-GRAND ISLAND	4244686	Clarks Food	(40.85)
Total US FOODS-GRAND ISLAND			<u>1,640.83</u>
Fund Number 06			<u>8,037.61</u>
Checking Account ID 04			<u>8,037.61</u>



2021-2022 Month	Activities		Receipt				Disbursements		
	Receipt Amount	Disburse Amount	snack sales	Fundraisers	Other	Snacks	Misc -		
September	\$0.00	\$744.22	\$0.00	\$0.00	\$0.00	\$134.82	\$609.40		
October	\$1,469.55	\$322.80	\$174.55	\$701.00	\$594.00	\$22.80	\$300.00		
November	\$0.00	\$116.44	\$0.00	\$0.00	\$0.00	\$116.44	\$0.00		
December	\$177.75	\$0.00	\$157.75	\$0.00	\$20.00	\$0.00	\$0.00		
January	\$0.00	\$201.04	\$0.00	\$0.00	\$0.00	\$0.00	\$91.93		
February	\$82.13	\$330.67	\$82.13	\$0.00	\$0.00	\$96.14	\$234.53		
March	\$64.86	\$89.31	\$64.86	\$0.00	\$0.00	\$0.00	\$89.31		
April	\$2,187.00	\$372.71	\$78.20	\$2,108.80	\$0.00	\$83.00	\$289.71		
May	\$4,174.55	\$443.63	\$0.00	\$527.20	\$3,647.35	\$0.00	\$305.52		
June	\$0.00	\$22.92	\$0.00	\$0.00	\$0.00	\$0.00	\$22.92		
July	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		
August	\$3,128.92	\$4,590.00	\$0.00	\$0.00	\$3,128.92	\$0.00	\$4,590.00		
<b>Totals</b>	<b>\$11,284.76</b>	<b>\$7,233.74</b>	<b>\$557.49</b>	<b>\$3,337.00</b>	<b>\$7,390.27</b>	<b>\$453.20</b>	<b>\$6,533.32</b>		

Bank Stmt Balance 6172.79

Previous Balance \$2,121.77  
 Receipts \$11,284.76  
 Disbursements \$7,233.74

**Ending Balance \$6,172.79**

Pending

### 10.3. Activity Report

Activity Book 2021-2022

			Totals	-\$47,148.39	\$23,136.15
DATE	CHECK	COLUMN	CATEGORY	DEBIT	CREDIT
8-2-22	19148	HPC Lunch	Close Beef account	-123.34	
8-2-22	19151	Village of Polk	Cheer Hall rent	-50	
8-2-22	19149	York High School	Golf Tourney- didn't make full payment	-20	
8-2-22	19150	Kathy Miller	Cheer Car show trophies	-361.5	
8-2-22	19152	Varsity Spirit & Fashion	Cheer Cheer uniforms	-1,382.00	
8-2-22	19147	Mack Alspaugh	Golf Tourney didn't take cc	-474.46	
8-4-22		Deposit	Wt Room membership G. Vanhousen		30
8-4-22		Deposit	JR FB Camp		20
8-4-22		Deposit	VB Camp		70
8-8-22		Deposit	FB Camp		20
8-8-22		Deposit	FFA working polk county fair bbq		200
8-8-22		Deposit	FFA Mums		24
8-8-22	19153	Misko sports	ATH track shirts	-534	
8-8-22	19154	Blackburn MFG	ATH Golf tourney hole signs	-148.18	
8-8-22	19155	HTR Inc/Klute truck equipment	FFA Stock Trailer	-8,900.00	
8-8-22	19156	Collins Sports medicine	ATH coll flex cohesive	-138.95	
8-8-22	19157	Jostens	ATH Letters for jackets	-320.25	
8-8-22	19158	BCBS	Teacher's Teacher's Ins	-3,787.58	
8-10-22		Deposit	WT Room Memberships		330
8-10-22		Deposit	ATH Golf tourney money		400
8-10-22	19159	Martin Phillips	ATH Golf tourney supplies	-33.9	
8-10-22		Deposit	ATH Golf tourney money		8,209.00
8-10-22	19160	CWD	Concessions Food for concessions	-1,055.92	
8-17-22	19161	CRC	ATH CRC Meeting	-162.54	
8-18-22		Deposit	Misc/General Fund CC Reimbursement		5,166.47
8-18-22		Deposit	Cheer Donation		20
8-19-22	19162	Nicole Quast	HPC Spirit CC was declined Nicole pd	-134.86	
8-19-22	19163	Regal Awards	ATH Wrestling Metals/Trophy	-751.98	
8-19-22	19164	BSN Sports	ATH JR FB	-182.45	
8-19-22	19165	Misko sports	ATH HS BB	-3,410.00	
8-19-22	19166	Sportdecals	ATH HS FB	-90.5	
8-19-22	19167	Hampton Public schools VOID	ATH CRC Dues 2022-2023	-350	
8-19-22	19168	CRC	ATH CRC Dues 2022-2023	-350	
8-26-22	19169	Grand Island Public School	ATH Overpayment for Wrestling invite 1-6-22	-40	
8-26-22	19170	HPC General Fun	Voc Ag closed voc ag account	-2,003.18	
8-26-22	19171	HPC ELEM Activites	Library closed library account,elem now has	-1,573.48	
8-26-22	19172	Card Member Services	CC payment for several activites	-7,083.16	
8-26-22	19174	Cash	FB Admin & Conc starter box	-935	
8-26-22	19147	Cash	VB Admin & Conc starter box	-400	
8-26-22	19176	Fields & Frills	HS VB Warm-ups	-268.08	
8-26-22	19173	Fullerton Livestock Auction	FFA Bottle Calves	-400	
8-29-22		Deposit			
8-29-22		Deposit	FFA		3,997.81
8-29-22		Deposit	Laptops		2,830.00
8-29-22		Deposit	ATH Season Passes		340
8-29-22		Deposit	ATH Coach T-shirts		688.12
8-31-22		Deposit	ATH Golf, HPC pass		245
8-31-22		Deposit	Yearbook Yearbooks		325
8-31-22		Deposit	FFA Mums, Dues, Hamilton County Ag		220.75
8-31-22	19177	Community Feed& Seed store	FFA Milk Replacer bottle calves	-96.5	
8-31-22	19178	Emma Snoberger	FFA 2022 Fair	-58.5	
8-31-22	19179	Brianna Willshosen	FFA 2022 Fair	-282	
8-31-22	19180	Brook Bannister	FFA 2022 Fair	-81.25	
8-31-22	19181	Pepsi	Concessions Drinks for concessions	-491.38	
8-31-22	19182	Misko Sports	ATH HS FB Uniforms	-4,652.00	

Activity Book 2021-2022

8-31-22	19183	Northeast Public School	ATH. JR HS	VB Tournament	-75
8-31-22	19184	Nicole Keenan	ATH	HS VB Mlni Vb	-57.46
8-31-22	19185	Stephanie Carlson	Yearbook	Mailed Yearbook	-7.12
8-31-22	19186	Walsworth	Yearbook		-1,232.75
8-31-22	19187	The Graphic Edge	ATH FB Coach shirts(pd for by them)		-688.12
8-31-22	19188	Complete Wedding and Events	7-12 Principal	Homecoming DJ	-419
8-31-22	19189	Andy Baker	ATH	VB Official	-150
8-31-22	19191	Christina Baker	ATH	VB Official	-150
8-31-22	19192	Jay Perdew	ATH	FB official	-130
8-31-22	19193	Jerred Ulferts	ATH	FB Official	-130
8-31-22	19194	Rod Ruybalid	ATH	FB Official	-130
8-31-22	19195	Mark Ulferts	ATH	FB Official	-130
8-31-22	19196	Blake Bechler	ATH	FB Official	-130
8-31-22	19199	Valleyview Golf Club	ATH	Golf Course Rent	-2,400.00
8-31-22	19200	Valentino's of Columbus	Concessions	Pizza for FB Game	-192

Bank Statement Balance	\$138,556.33	
Add - Deposits in Transit:		
Outstanding Checks:		2 checks
Ending Balance:	\$159,063.41	
Deposits in Transit:		
Date	Amount	
Outstanding Checks:		
Check #	Amount	
19145	\$240.00	
19153	\$534.00	
19159	\$33.90	
19163	\$751.98	
19167	VOID	
19168	\$350.00	
19169	\$40.00	
19171	\$1,573.48	
19172	\$7,083.16	
Total	\$3,559.80	

**11. Schedule Next BOE Meeting (Date, Time, Location)**

**12. Motion to Adjourn**