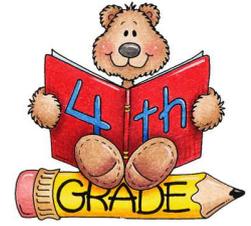# Grade 4
Standards-Based Report Card
Progress Check Points
First Nine Weeks

English/Language Arts

All students should know and be able to:

- Determine a theme of a story, drama, or poem
- Identify author's purpose in informational and fictional text
- Determine the meaning of words and phrases as they are used in a text
- Analyze how visual and multimedia elements contribute to the meaning
- Read and comprehend texts, including stories, dramas, and poetry on grade level text (Level P/Q)
- Quote accurately from a text when explaining what the text says
- Compare and contrast events over multiple texts
- Explain how an author uses reasons support particular points
- Write opinion pieces on topics or texts, supporting a point of view with reasons
- Write informative/explanatory texts to examine a topic and convey ideas and information clearly
- Write narratives to develop real or imagined experiences or events using effective technique, descriptive details, and clear event sequences

Science

All students should know and/or be able to:
- Identify the roles of producers, consumers, and decomposers in a community.
- Demonstrate the flow of energy through a food web/food chain beginning with sunlight and including producers, consumers, and decomposers.
- Predict how changes in the environment would affect a community (ecosystem) of organisms.
- Predict effects on a population if some of the plants or animals in the community are scarce or if there are too many.

Mathematics

All students should know and/or be able to:

- Use strategies involving the four operations with whole numbers to solve problems
- Recognize, understand, and use factors and multiples within 1 to 10, appropriately
- Demonstrate an understanding of prime and composite numbers an fluently recall hem and use them in appropriate mathematical situations
- Understand and use divisibility for common factors
- Generate and analyze patterns, and explain why a rule applies
- Identify and apply understanding of place value for multi-digit whole numbers
- Round multi-digit whole numbers to any place up to 1,000,000
- Use place value understanding 1,000,000 and properties of operations to perform multi-digit arithmetic
- Develop, discuss, and use efficient, accurate, and generalizable methods of multi-digit arithmetic
- Illustrate and explain calculations using a variety of models and representations
- Demonstrate an understanding of place value through number recognition, comparison, and rounding
- Crate numbers that meet specific criteria
- Appropriately use >, =, < symbols to record results of comparisons

Social Studies

All students should know and/or be able to:
- Explain and use the 5 Themes of Geography
- Describe cultures of the American Indians
- Describe geography of the American Indians
- Identify physical Features of the US
- Explain European Exploration
- Describe geography of exploration
- Describe character traits of explorers
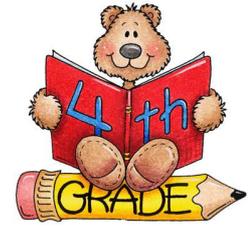- Explain the impact of economics on history

Grade 4
Standards-Based Report Card
Progress Check Points
Second Nine Weeks

English/Language Arts
All students should know and be able to:

- Determine a theme of a story, drama, or poem
- Identify author's purpose in informational and fictional text
- Determine the meaning of words and phrases as they are used in a text
- Analyze how visual and multimedia elements contribute to the meaning
- Reads leveled text on rubric with purpose and understanding (Q)
- Quote accurately from a text when explaining what the text says
- Compare and contrast the overall structure of events across multiple texts
- Explain how an author uses reasons support particular points
- Write opinion pieces on topics or texts, supporting a point of view with reasons
- Write informative/explanatory texts to examine a topic and convey ideas and information clearly
- Write narratives to develop real or imagined experiences or events using effective technique, descriptive details, and clear event sequences

Science
All students should know and/or be able to:
- Identify external features of organisms that allow them to survive or reproduce better than organisms that do not have these features (for example: camouflage, use of hibernation, protection, etc.).
- Identify factors that may have led to the extinction of some organisms.
- Recognize the physical attributes of stars in the night sky such as number, size, color and patterns.
- Compare the similarities and differences of planets to the stars in appearance, position, and number in the night sky.
- Explain why the pattern of stars in a constellation stays the same, but a planet can be seen in different locations at different times.
- Identify how technology is used to observe distant objects in the sky.
- Explain the day/night cycle of the earth using a model.
- Explain the sequence of the phases of the moon.
- Demonstrate the revolution of the earth around the sun and the earth's tilt to explain the seasonal changes.
- Demonstrate the relative size and order from the sun of the planets in the solar system.

Mathematics
All students should know and be able to:

- Explain patterns in the number of zeros of the product when multiplying a number by powers of 10
- Explain patterns in the placement o the decimal pint wen a decimal is multiplied or divided by a power of 10
- Use whole-number exponents to denote powers of 10
- Perform operations with multi-digit whole numbers and with decimals to hundredths
- Use equivalent fractions as a strategy to add and subtract fractions
- Solve word problems involving addition and subtraction of fractions referring to the same whole, including cases of unlike denominators
- Apply and extend previous understandings of multiplication and division to multiply and divide fractions
- Interpret a fraction as division of the numerator by the denominator ($a/b = a \div b$)
- Solve word problems involving division of whole numbers leading to answers in the form of fractions or mixed numbers
- Find the area of a rectangle with fractional side lengths by tiling it with unit squares of the appropriate unit fraction side lengths, and show that the area is the same as would be found by multiplying the side lengths
- Multiply fractional side lengths to find areas of rectangles, and represent fraction products as rectangular areas
- Solve real world problems involving multiplication of fractions and mixed numbers
- Make a line plot to display a date set of measurements in fraction sofa unit (1/2, 1/4, 1/8)
- Use operations on fraction for the is grade to solve problems involving information presented in line plots

Social Studies
All students should know and/or be able to:
- Discuss British Colonial America
- Describe geography of the colonies
- Describe federal system of government
- Explain positive character traits of colonists
- Identify and describe causes, events and results of American Revolution
- Describe geography of the Revolution
- Explain the impact of geography on war
- Discuss the Declaration of Independence

Grade 4
Standards-Based Report Card
Progress Check Points
Third Nine Weeks

English/Language Arts

All students should know and be able to:

- Determine the meaning of words and phrases as they are used in a text, including figurative a language such as metaphors
- By the end of the year, read and comprehend literature, including stories, dramas, and poetry at the high end of leveled readers R and above
- Quote accurately from a text when explaining what the text says explicitly
- Compare and contrast the overall structure of events, ideas, concepts, or information in two or more texts
- Explain how an author uses reasons and evidence to support particular points in a text, identifying which reasons
- Write opinion pieces on topics or texts, supporting a point of view with reasons
- Write informative/explanatory texts to examine a topic and convey ideas and information clearly

Social Studies

All students should know and/or be able to:

- Discuss the Articles of Confederation, Constitution,
- Discuss the Bill of Rights
- Know the Preamble and "We the People"
- Explain the Federal System of Government
- Know and explain the First Amendment
- Describe the functions of Government
- Explain Democratic beliefs and ideals
- Describe character traits
- Discuss the War of 1812
- Explain the Westward Expansion
- Describe the impact of expansion on population and the resulting changes
- Explain how technology (steamboat, locomotive, and telegraph) impacted life
- Describe Abolition and Suffrage
- Locate features of US
- Identify geography of Westward Expansion
- Describe the impact of economics on history

Mathematics

All students should know and be able to:

- Continue work and understanding of standard from previous tow nine week periods
- Understand decimal notation for fractions, and compare decimal fractions
- Draw and identify lines and angles, and classify shapes by properties of their lines and angles (including line of symmetry)

Science

All students should know and/or be able to:

- Demonstrate how water changes states from solid to liquid to gas and changes from gas to liquid to solid.
- Identify the temperatures at which water becomes a solid and at which water becomes a gas.
- Investigate how clouds are formed.
- Explain the water cycle.
- Investigate different forms of precipitation and sky conditions.
- Identify weather instruments and explain how each is used in gathering weather data and making forecasts.
- Use a weather map to identify the fronts, temperature, and precipitation and use the information to interpret the weather conditions.
- Use observations and records of weather conditions to predict weather patterns throughout the year.
- Differentiate between weather and climate.

Grade 4
Standards-Based Report Card
Progress Check Points
Fourth Nine Weeks

English/Language Arts
All students should know and be able to:
- Quote accurately from a text when explaining what the text says explicitly and when drawing inferences from the text
- Determine a theme of a story, drama, or poem from details in the text, including how characters in a story or drama respond to challenges or how the speaker in a poem reflects upon a topic summarize the text
- Determine the meaning of words and phrases as they are used in a text, including figurative language such as metaphors and similes
- Analyze how visual and multimedia elements contribute to the meaning, tone or beauty of text (e.g., graphic novel, multimedia presentation of fiction, folktale, myth, poem)
- Read and comprehend literature, including stories, dramas, and poetry, at the high end of leveled readers S and above, and with the grades 4-5 text complexity band independently and proficiently
- Quote accurately from a text when explaining what the text says explicitly and when drawing inferences form the text
- Compare and contrast the overall structure (e.g., chronology, comparison, cause/effect problem/solution) of events, ideas, concepts or information in two or more texts
- Explain how an author uses reasons and evidence to support particular points in text, identifying which reasons and evident supports which point(s)
- Write opinion pieces on topics or texts, supporting a point of view with reasons
- Write informative/explanatory texts to examine a topic and convey idea and information clearly
- Write narratives to develop real or imagine experiences or events using effective technique, descriptive details, and clear event sequences

Social Studies
All students should know and/or be able to:
- Make decisions about spending and saving

Mathematics
All students should know and be able to:
- Continue work and understanding of standards from all previous nine week periods
- Solve problems involving conversion of measurements from a larger unit to a smaller unite within the same system
- Solve problems involving measurement including area and perimeter for rectangles
- Create lien plots of measurements expressed in fractions of a unit and solves addition and subtraction problems involving the data presented in the line plot
- Understand concepts of angles and measuring angles
- Sketch angles of a specified measure, find the measure of a specified angle by adding its decomposed parts, and solve addition and subtraction problems to find unknown angles on a diagram in real-work situations

Science
All students should know and/or be able to:
- Identify simple machines and explain their uses.
- Using different size objects, observe how force affects speed and motion.
- Explain what happens to the speed or direction of an object when a greater force than the initial one is applied.
- Demonstrate the effect of gravitational force on the motion of an object.
- Identify materials that are transparent, opaque, and translucent.
- Investigate the reflection of light using a mirror and a light source.
- Identify the physical attributes of a convex lens, a concave lens, and a prism and where each is used.
- Investigate how sound is produced.
- Recognize the conditions that cause pitch to vary.