

# 5<sup>th</sup> Grade Learner Expectations for the 3rd Trimester



As a result of their schooling, students will be able to:

## Reading, Writing, and Communicating

- **Effectively communicates and listens for a variety of purposes**  
- No evidence outcomes mastered during trimester for this indicator.
- **Uses comprehension strategies to understand and interpret texts**  
- 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.  
- By the end of the year, read and comprehend literature, including stories, dramas, and poetry, at the high end of the grades 4-5 text complexity band independently and proficiently.  
- By the end of the year, read and comprehend informational texts, including history/social studies, science, and technical texts, at the high end of the grades 4-5 text complexity band independently and proficiently.
- **Uses author's craft and text structure to gain meaning**  
- Analyze how visual and multimedia elements contribute to the meaning, tone, or beauty of a text (e.g., graphic novel, multimedia presentation of fiction, folktale, myth, poem).  
- Use knowledge of literary devices (such as imagery, rhythm, foreshadowing, simple metaphors) to understand and respond to text.
- **Applies knowledge or word structure to decode and comprehend texts**  
- Use common, grade appropriate Greek and Latin affixes and roots as clues to the meaning of a word (e.g., photograph, photosynthesis).  
- Read and identify the meaning of words with sophisticated prefixes and suffixes.  
- Apply knowledge of derivational suffixes that change the part of speech of the base word (such as active, activity).  
- Read and identify the meaning of roots and related word families in which the pronunciation of the root does not change.  
- Determine the meaning of words and phrases as they are used in a text, including figurative language such as metaphors and similes.
- **Reads texts with accuracy and fluency to support comprehension**  
- No evidence outcomes mastered during trimester for this indicator.
- **Integrates knowledge and ideas to respond to texts**  
- Locate information to support opinions, predictions, inferences, and identification of the author's message or theme.
- **Uses the writing process to create texts in literary genres**  
- Use concrete words and phrases and sensory details to convey experiences and events precisely.  
- Write poems using poetic techniques (alliteration, onomatopoeia); figurative language (simile, metaphor); and graphic elements (capital letters, line length).

- **Creates strong informational and persuasive texts**  
- No evidence outcomes mastered during trimester for this indicator.
- **Uses Standard English conventions and spelling when writing**  
- No evidence outcomes mastered during trimester for this indicator.
- **Uses Standard English grammar and usage**  
- Explain the function of conjunctions, prepositions, and interjections in general and their function in particular sentences.  
- Use verb tense to convey various times, sequences, states, and conditions.  
- Recognize and correct inappropriate shifts in verb tense.
- **Organizes, presents and documents high quality research**  
- Develop relevant supporting visual information (charts, maps, graphs, photo evidence, models).
- **Draws evidence from text to support analysis, reflection, and research**  
- Draw evidence from literary or informational texts to support analysis, reflection and research.  
- Apply grade 5 Reading standards to literature (e.g., "Compare and contrast two or more characters, settings, or events in a story or a drama, drawing on specific details in the texts [e.g., how characters interact]").  
- Apply grade 5 Reading standards to informational texts (e.g., "Explain how an author uses reasons and evidence to support particular points in a texts, identifying which reasons and evidence support which point[s]").
- **Uses reasoning and questioning skills to analyze and evaluate viewpoints**  
- No evidence outcomes mastered during trimester for this indicator.

## Math

- **Interpret numerical expressions and analyze pattern relationships**  
- Use parentheses, brackets, or braces in numerical expressions, and evaluate expressions with these symbols.  
- Write simple expressions that record calculations with numbers, and interpret numerical expressions without evaluating them.  
- Generate two numerical patterns using given rules.  
- Identify apparent relationships between corresponding terms and find missing elements in a function table.  
- Form ordered pairs consisting of corresponding terms from the two patterns, and graphs the ordered pairs on a coordinate plane.  
- Explain informally relationships between corresponding terms in the patterns.  
- Use patterns to solve problems including those involving saving and checking accounts (PFL)  
- Explain, extend, and use patterns and relationships in solving problems, including those involving saving and checking accounts such as understanding that spending more means saving less (PFL)
- **Understand the place value system**  
- No evidence outcomes mastered during trimester for this indicator.
- **Perform operations with multi-digit whole numbers**  
- No evidence outcomes mastered during trimester for this indicator.
- **Perform operations with multi-digit decimals to hundredths**  
- No evidence outcomes mastered during trimester for this indicator.
- **Add and subtract fractions**  
- No evidence outcomes mastered during trimester for this indicator.

- **Multiply and divide fractions**  
- Interpret a fraction as division of the numerator by the denominator ( $a/b = a \div b$ ).  
- Interpret the product  $(a/b) \times q$  as a parts of a partition of  $q$  into  $b$  equal parts; equivalently, as the result of a sequence of operations  $a \times q \div b$ . In general,  $(a/b) \times (c/d) = ac/bd$ .  
- Multiply fractional side lengths to find areas of rectangles, and represent fraction products as rectangular areas.  
- Compare the size of a product to the size of one factor on the basis of the size of the other factor, without performing the indicated multiplication.  
- Solve real world problems involving multiplication of fractions and mixed numbers.  
- Interpret division of a unit fraction by a non-zero whole number, and compute such quotients.  
- Interpret division of a whole number by a unit fraction, and compute such quotients.  
- Solve real world problems involving division of unit fractions by non-zero whole numbers and division of whole numbers by unit fractions.
- **Represent and interpret data**  
- Make a line plot to display a data set of measurements in fractions of a unit ( $1/2, 1/4, 1/8$ ).  
- Use operations on fractions for this grade to solve problems involving information presented in line plots.
- **Understand measurement concepts of volume and converting units**  
- Convert among different-sized standard measurement units within a given measurement system.  
- Use measurement conversions in solving multi-step, real world problems.
- **Classify two-dimensional figures and graph on the coordinate plane**  
- Explain that attributes belonging to a category of two-dimensional figures also belong to all subcategories of that category.  
- Classify two-dimensional figures in a hierarchy based on properties.  
- Graph points on the coordinate plane to solve real-world and mathematical problems.  
- Represent real world and mathematical problems by graphing points in the first quadrant of the coordinate plane, and interpret coordinate values of points in the context of the situation.

## Science

### Physical Science

Mixtures and Solutions

- **Understands mixtures can be separated based on physical properties**  
- Develop, communicate, and justify a procedure to separate simple mixtures based on physical properties.  
- Share evidence-based conclusions and an understanding of the impact on the weight/mass of a liquid or gas mixture before and after it is separated into parts.

### Life Science

Living Systems and Human Body

- **Describes how organisms have structures & systems with separate functions**

- Develop and communicate an evidence-based scientific explanation of the role of different organs or structures that are important for an organism's survival – both plants and animals.

- Analyze and interpret data to generate evidence that all organisms have structures that are required for survival in both plants and animals.

- Create and evaluate models of plant and/or animals systems or parts.

- **Explains that body systems have basic structures, functions, and needs**

- Develop and communicate an evidence-based scientific explanation regarding how humans address basic survival needs.

- Analyze and interpret data to generate evidence that human systems are interdependent.

- Assess further scientific explanations regarding basic human body system functions.

- Create and evaluate models of human body systems and organs.

- Compare and contrast a human system to that of another organism, and provide hypotheses about why the similarities and differences exist.

#### Earth Science

- **Understands Earth/Sun provides renewable/nonrenewable resources**

- Develop and communicate a scientific explanation addressing a question of local relevance about resources generated by the Sun or Earth.

*Water Planet and Landforms*

- Analyze and interpret a variety of data to understand the origin, utilization, and concerns associated with natural resources.

*Water Planet and Landforms*

- **Explores how Earth's surface changes through a variety of processes and forces**

- Analyze and interpret data identifying ways Earth's surface is constantly changing through a variety of processes and forces such as plate tectonics, erosion, deposition, solar influences, climate, and human activity.

- Develop and communicate an evidence-based scientific explanation around one or more factors that change Earth's surface.

- **Understands that weather is measured by changes in the atmosphere**

- Develop and communicate an evidence-based scientific explanation for changes in weather conditions.

- Gather, analyze, and interpret data such as temperature, air pressure, wind, and humidity in relation to daily weather conditions.

- Describe weather conditions based on data collected using a variety of weather tools.

- Use data collection tools and measuring devices to gather, organize, and analyze data such as temperature, air pressure, wind, and humidity in relation to daily weather conditions.

### **Social Studies**

- **Analyzes sources to develop an understanding of historical context**

- No evidence outcomes mastered during trimester for this indicator.

- **Identifies eras and themes from 1491 through founding of US government**

- No evidence outcomes mastered during trimester for this indicator.

- **Uses various tools to answer questions about the geography of the US**

- Answer questions about regions of the United States using various types of maps.

- Use geographic tools to identify, locate, and describe places and regions in the United States and suggest reasons for their location.

- Locate resources in the United States and describe the influence of access on the development of local and regional communities.

- Describe similarities and differences between the physical geography of Colorado and its neighboring states.

- **Explains causes and consequences of trade, exploration, and migration**

- Analyze how cooperation and conflict among people contribute to political, economic, and social divisions in the United States.

- Give examples of the influence of geography of the history of the United States

- **Defines the characteristics of a capitalist economy**

- Define a capitalist market economy.

- Identify governmental activities that affect financial institutions and the economy at the local, state, and national level.

- **Identifies the products and series of financial institutions**

- Identify different financial institutions.

- Identify the products and services of financial institutions to include but not limited to such topics as checking accounts, savings accounts, investments, and loans.

- Compare and contrast financial institutions, their products, and services.

- **Describes the rights and responsibilities of citizenship in the US**

- No evidence outcomes mastered during trimester for this indicator.

- **Defines the origins, structure and function of the US government**

- No evidence outcomes mastered during trimester for this indicator.

### **Reviewing the New Language**

#### **Learner Expectations:**

The articulation (at each grade level), concepts, and skills of a standard that indicate a student is making progress toward being ready for high school. What do students need to know from preschool through eighth grade? These are the statements contained in the report card.

#### **Evidence Outcomes:**

The indication that a student is meeting an expectation at the mastery level. How do we know that a student can do it?

*Example:*

#### **Learner Expectation:**

Represent/use algorithms to add and subtract whole numbers and decimals.

#### **Evidence Outcome(s):**

- Use concrete models or drawings and strategies based on place value, properties of operations, and/or the relationship between addition and subtraction.

- Relate strategies to a written method and explain the reasoning used.



## **Report Card Indicators 2015-2016**

### **3rd Trimester**

This school year Colorado has new academic standards for students. Colorado state academic standards are the expectations of what students need to know and be able to do. They also express what Colorado sees as the future skills and essential knowledge for our next generation to be successful.

Academic standards are important because they help ensure that all students are prepared for success in college and the workforce. They provide a framework of clear and consistent expectations for students, parents, and teachers; assist in building your child's knowledge and skills; and set high goals for all students.