



# 5th Grade 2016-2017



## Semesters 1 and 2

### Student success at school:

- Compare and contrast various landforms.
- Describe how erosion and deposition rates can be affected by the slope of the land and human activity.
- Differentiate between renewable and nonrenewable resources.
- Explain that the sun is the main source of the various kinds of energy used on Earth.
- Investigate that the total mass of a material remains constant regardless of its current state.
- Determine whether or not the mixing of two or more substances results in a new substance.
- Support an argument that plants get what they need to grow chiefly from air and water.
- Develop models to show the movement of matter among plants, animals, decomposers, and the environment.

### Student success at home:

- Read articles with your child about scientific topics and current areas of progress and talk about the articles as well as the effects this progress may have.
- Connect science with a family vacation. Explore non-formal education sites (museums, zoos, science centers, and aquariums).
- Start family discussions on natural resources.
- Research various landforms and the impact humans have on the environment.
- Discuss the cause and effect associated with a natural phenomenon.
- Discuss the importance of engineering, science, and technology in the world.
- Experiment by mixing together different liquids. Have your child record observations and thoughts using text and illustrations.
- Look at the landforms that decorate Earth's surface around your home. Explain that each landform is the result of one of more processes that create and change Earth's surface.
- Let your child listen to your heart, lungs, stomach, intestines, your throat swallowing, and your teeth chewing. Talk about what the sounds tell us about transport systems in our bodies.
- Encourage the engineering design process: Generate and compare many solutions to a problem. Plan and conduct fair tests to improve a design.

Your child's achievement is a partnership between you and your child's teacher. Below is information about the CCSD English Language Arts, Mathematics and Science fifth grade curriculum resulting from the ongoing implementation of the Nevada Academic Content Standards (NVACS).

## Tips for Reading with Your Child at Home

There is nothing more important to academic success than being a proficient reader. Studies show that regularly reading aloud to children will produce significant gains in reading comprehension, vocabulary, and the decoding of words. To help your child reach this goal, here are a few tips to ensure their success:

- Make reading a regular activity in your home.
- Read a book together. This is the perfect opportunity for you to model what reading should sound like for your child and listen to your child read aloud.
- Ask questions to check for understanding. Ask them to retell the story or summarize what they have read so far. If they are reading an informational text, have them determine the main idea and important facts. Discuss any new vocabulary that they encounter in the reading.
- Your child will be more engaged with the reading if they are able to select their own topics.
- Remember reading is not just books anymore!
- Encourage your child to read to younger siblings.
- Remember when your child is selecting a book, make sure it is "just right" for their reading level. Have your child read the front and back cover and the first page of the book. If there are more than five words that he cannot pronounce or understand in context, the book may be too challenging. Be supportive about finding a more perfect fit.

If your child has trouble reading a word, allow for five to ten seconds before providing support or assistance. Some tips for support may include:

- What word would make sense?
- What do you think the word could be?
- Skip over the word and read to the end of the sentence or paragraph. Then, ask what word would make sense and reread the sentence or paragraph.
- Help your child sound out the word or tell them the word.

Remember reading should be a pleasant experience for your child. Provide encouragement and time to read together.

## Websites to Support Reading and Mathematics Skills



[www.pbskids.org](http://www.pbskids.org)



James Patterson's  
**READKIDDOREAD.com**  
Dedicated to making kids readers for life.

[www.readkiddoread.com](http://www.readkiddoread.com)

**Coolmath  
4kids.com**

[www.coolmath4kids.com](http://www.coolmath4kids.com)



[www.mathisfun.com](http://www.mathisfun.com)

# 5th Grade English Language Arts

## Semester 1

### Student success at school:

- Read literature and informational books and materials and quote accurately from a text when explaining what it says.
- Write narrative stories using effective techniques to convey experiences and events precisely.
- Determine the 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.
- Compare and contrast two or more characters, settings, or events in a story.
- Write opinion pieces on topics or texts developing the topic with facts, definitions, concrete details, and supporting a point of view with reasons and information.
- Determine two or more main ideas of a text and explain how they are supported by key details; summarize the text.
- Compare and contrast overall structure (e.g., chronology, comparison, cause/effect, problem/solution) of events, ideas, concepts, or information in two or more texts.
- Develop and strengthen writing by considering task, purpose, and audience when planning, revising, editing, and rewriting, or trying a new approach with support of peers and adults.

### Student success at home:

- Read stories or plays together; discuss the characters and their challenges.
- Ask your child questions about stories he/she is reading; have him/her use parts of the story to explain his/her thinking and/or summarize what he/she is reading.
- Read news or magazine articles with your child. Discuss the main points of the article and encourage your child to write his/her opinion on the topic using facts from the article to support their opinion.
- Ask your child to compare events from two different stories or articles.
- Encourage writing by asking your child to keep a personal journal or diary to write about his/her own stories, and include your child in real-life writing experiences. For example, your family could write a letter to a family member to share recent events.



### Student success at home:

- Read and watch stories, poetry, or dramas together and discuss theme; have your child use information in the story to explain his/her thoughts.
- Look for similes and metaphors in books and poetry and discuss their meaning.
- Go to the library or look online for books and articles on a topic that is of interest to your child.
- Include your child in real-life writing experiences (e.g., writing letters or e-mails to family members, keeping a personal journal or log to record his/her own stories).

# 5th Grade Mathematics

## Semester 1

### Student success at school:

- Read, write, and compare decimals to the thousandths place.
- Use place value understanding to round decimals to any place.
- Add and subtract fractions using models, drawings, and numbers.
- Solve word problems involving the addition and subtraction of fractions.
- Measure volume using cubic centimeters, cubic inches, and cubic feet.
- Display data in fractions on line plots.
- Classify two-dimensional figures based on their properties.



### Student success at home:

- Ask your child to compare prices of products at the store.
- Write two decimals to the thousandths place and reason through comparing which is greater than, is less than, or is equal to the other.
- Practice multiplying whole digit numbers.
- Have your child estimate and measure weights and volumes of household items (e.g., cereal boxes, toy chest, shoe box).

## Semester 2

### Student success at school:

- Fluently multiply multi-digit whole numbers.
- Solve real world problems involving multiplication and division of fractions and mixed numbers by using visual models or equations.
- Find whole-number quotients of whole numbers up to four-digit dividends and two-digit divisors.
- Divide fractions by whole numbers and whole numbers by fractions.
- Estimate and convert units of measurement (customary and metric) for weight, volume, and capacity.
- Use parentheses, brackets, and/or braces in numerical expressions.
- Add, subtract, multiply, and divide decimals to the hundredths place, using models, drawings, or strategies based on place value.
- Solve real world problems involving division of fractions by a non-zero whole number using visual models to represent the problem.
- Use multiplication and addition to solve problems involving volume.
- Convert different-sized standard measurement units within the same measurement system (e.g., convert 5 cm to 0.05m).



### Student success at home:

- Work with your child to add, subtract, multiply, and divide fractions.
- Divide fractions using visual models.
- Interpret numerical expressions without simplifying (solving) them (e.g., express  $2 \times (8 + 7)$  as add 8 and 7, then multiply by 2).
- Add, subtract, multiply, and divide decimals.
- Practice solving real-world problems dividing fractions by a whole number (e.g., How much pizza will each person get if 3 people share  $\frac{1}{2}$  of a pizza equally?).
- Use a ruler to measure items in feet or meters. Convert the whole-number measurement from feet to inches or from meters to centimeters.