ENGLISH LANGUAGE ARTS

Below is a sample of content your child should know and be able to do by the end of fifth grade.

READING – *Foundations, Literature, and Informational Text*

- Quote accurately from a text when explaining what the text says.
- Determine two or more main ideas of a text; explain how they are supported by details. Summarize the text.
- Figure out the meaning of unfamiliar words using knowledge of syllables, letter-sound relationships, and Greek and Latin root words (e.g., port, ped, centi, ist, graph, sphere), prefixes, and suffixes (e.g., in-, ir-, non-, -able, -ion, -tion).

WRITING

- Write opinion pieces on topics or texts. Support a point-of-view and include reasons or information for that point-of-view.
- Write informative texts to examine a topic; present ideas and information clearly.
- Use several resources (e.g., books on a topic, thesaurus) to build knowledge; investigate a topic for a research project.

LANGUAGE

- Use different verb tenses (i.e., eat, ate) to convey various times and sequences.
- Expand and combine sentences for meaning, interest, and style.
- Use relationships between particular words (like synonyms or homographs) to better understand each of the words.

To learn more about the Common Core State Standards for English Language Arts, refer to www.corestandards.org/the-standards.

Go to the library or look online for books and articles on a topic that is of interest to your child.

SUPPORTING YOUR CHILD'S LEARNING AT HOME

At home, you and your child can:

- Read news or magazine articles and discuss the main points and important details.
- Read/write poetry or watch plays together.
- Go to the library or look online for books and articles on a topic that is of interest to your child.
- Write about real-life experiences. For example, write a letter to a family member to share recent events.
- Practice typing on the computer. There are many free typing activities and games for kids on the Internet. Refer to www.learninggamesforkids.com/keyboarding_games.html or www.softschools.com/grades/5thgrade.jsp.
- Read stories and dramas together; discuss the characters and their response to challenges.
- Compare characters or events in a story.

For additional online support, refer to www.readkiddoread.com or www.readingrockets.org/audience/parents.

FOR STUDENT WRITING SAMPLES, REFER TO http://www.corestandards.org/assets/Appendix_C.pdf.

MATHEMATICS

Below is a sample of content your child should know and be able to do by the end of fifth grade.

OPERATIONS AND ALGEBRAIC THINKING

- Write, interpret, and evaluate numerical expressions using parentheses, brackets, or braces.
- Generate two numerical patterns using two given rules (e.g. starting at 0, add 3; starting at 0, add 6). Identify relationships between terms (e.g., the terms in one sequence are twice the terms in the other sequence).

NUMBER AND OPERATIONS IN BASE TEN

- Understand the place value system (e.g., a digit in one place represents 10 times as much as it represents in the place to its right and 1/10 of what it represents in the place to its left).
- Perform operations with multi-digit whole numbers and with decimals to hundredths.

NUMBER AND OPERATIONS – FRACTIONS

- Add, subtract, and multiply fractions with unlike denominators (including mixed numbers) using models, drawings, numbers, and equivalent fractions (e.g., 2/3 + 5/4 = 8/12 + 15/12 = 23/12).
- Solve word problems involving addition, subtraction, and multiplication of fractions, including unlike denominators and mixed numbers by using visual models, equations, benchmark fractions, mental estimation, and number sense (e.g., recognize an incorrect result 2/5 + 1/2 = 3/7, by observing that 3/7 < 1/2).
- Divide unit fractions by whole numbers (1/3 ÷ 4) and whole numbers by unit fractions (4 ÷ 1/5).

MEASUREMENT AND DATA

- Convert like measurement units within a given measurement system (e.g., convert 5 cm to 0.05 m).
- Represent and interpret data in line plots.
- Understand concepts of volume and relate volume to multiplication and to addition.

GEOMETRY

- Solve real-world and mathematical problems graphing points on a coordinate plane using an ordered pair of numbers (coordinates).
- Classify two-dimensional figures into categories based on their properties.

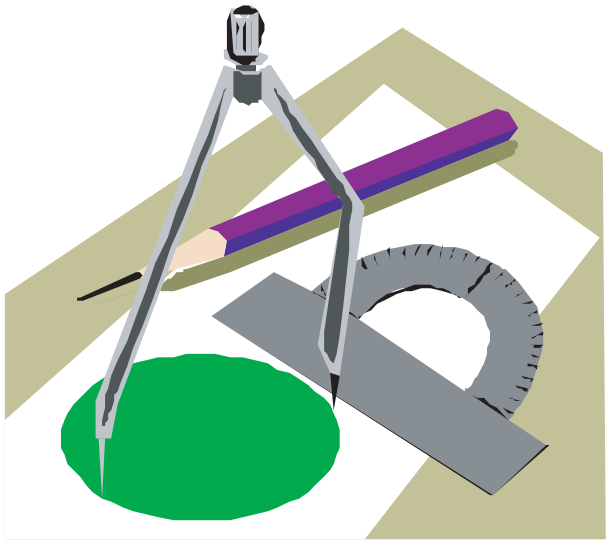
To learn more about the Common Core State Standards for Mathematics, refer to www.corestandards.org/the-standards.

SUPPORTING YOUR CHILD'S LEARNING AT HOME

At home, you and your child can:

- Encourage your child to use drawings or models when solving problems. Ask questions that promote thinking: What is a good place to start? Does this problem remind you of another problem? Can you tell me what is happening in the story problem? What are you trying to figure out? Can you prove your thinking? Can you solve it another way?
- Ask your child to compare fractions. Ask questions, such as: Which is less? 2/3 or 3/4? How do you know? What fraction is larger than 3/4? What are some fractions between 2/3 and 3/4?
- Encourage your child to use drawings and equations when solving problems.
- Look for shapes all around. Describe and determine the type of shapes (e.g. scalene, isosceles, equilateral, right, obtuse, and acute triangles; square, rectangle, parallelogram, rhombus, trapezoid).

For additional online support, refer to nlvm.usu.edu/ or illuminations.nctm.org/ActivitySearch.aspx.



SCIENCE

Below is a sample of content your child should know and be able to do by the end of fifth grade.

NATURE OF SCIENCE

- Conduct simple and safe investigations, record data, and communicate results.
- Draw conclusions from scientific evidence and work with teams to share findings.
- Determine if an investigation was a fair test.
- Explain that many people have contributed to scientific knowledge.

EARTH SCIENCE

- 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.

PHYSICAL SCIENCE

- Investigate how energy can be used to bring about change in matter.
- Investigate and describe that the total mass of a material remains constant regardless of its current state.
- Investigate and describe that by combining two or more materials, the properties of the resulting material may be different from the original materials.

LIFE SCIENCE

- Explain how the sun's energy is the primary source of energy for most ecosystems and through food webs.
- Investigate and describe the interaction of organisms with each other and with non-living parts of the ecosystem and how humans can impact change in the environment.
- Investigate how some environmental conditions are more favorable than others and how differences among species give them an advantage in surviving.

For information on the Nevada Standards for Science, refer to www.doe.nv.gov/APAC_science/.

SUPPORTING YOUR CHILD'S LEARNING AT HOME

At home, you and your child can:

- Create a plan for recycling paper, plastic, glass, and metal in your home. Refer to www.sciencekids.co.nz/sciencefacts/recycling.html.
- Create a terrarium and record observations. Refer to www.makeandtakes.com/make-a-kid-friendly-terrarium.
- Research the different climate regions in North America. Create a poster of your favorite region and share the information with other family members. Refer to www.sciencekids.co.nz/sciencefacts/earth.html.
- Research endangered animals and their reaction to changes in their environment. Refer to www.penguinscience.com.
- Build your own model of a roller coaster. Refer to http://kids.discovery.com/games/build-play/build-a-coaster.
- Create a solar oven. Refer to http://pbskids.org/zoom/activities/sci/solarcookers.html.

SOCIAL STUDIES

Below is a sample of content your child should know and be able to do by the end of fifth grade.

HISTORY

- Identify the contributions of Native American nations in North America.
- Describe the social, political, and religious lives of people in the New England, middle, and southern colonies.
- Explain the causes and key events of the American Revolution.

GEOGRAPHY

- Construct maps, graphs, and charts to display information about human and physical features in the United States.
- Derive geographic information from photographs, maps, graphs, books, and technological resources.
- Label a map of the United States with the state capitals.

ECONOMICS

- Describe how a limited supply of goods will increase cost(s).
- Identify the resources needed in households and schools (e.g., food, textbooks, teachers).
- Demonstrate an understanding of supply and demand in a market.

CIVICS

- Describe the criteria for United States citizenship.
- Explain the symbolic importance of the Fourth of July.
- Provide examples of national, state, and local laws.

To learn more about the Nevada Social Studies Standards, refer to www.doe.nv.gov/Standards_SocialStudies.html.

SUPPORTING YOUR CHILD'S LEARNING AT HOME

At home, you and your child can:

- Visit local museums.
- Discuss major news events on local, state, national, and world levels.
- Study states and capitals on a map.
- Examine the cultural identity of our community.
- Discuss how supply and demand impact price.
- Examine how one person's spending becomes another person's income.
- Explain what it means to be a leader.
- Discuss the sources of information you use to form an opinion.

For additional online support, refer to www.kids.gov/educators/ed_social.shtml.

LEARNING BEYOND THE CORE

Other areas of learning beyond the core areas of reading and writing, mathematics, science, and social studies include:

HEALTH - Students learn about:

- Personal health by examining alternatives and consequences when making a personal health decision.
- Growth and development by identifying the structures and functions of the body systems including the reproductive systems and by defining puberty. Note: Signed parent/guardian permission slip for the Fifth Grade Growth and Development Unit of Instruction is required.
- Nutrition and physical activity by applying the health-related components of an active lifestyle and the basic nutritional information found in "MyPlate" to a daily routine.
- Substance use and abuse by explaining the short and long-term effects of legal and illegal drugs and other substances on various body systems.
- Injury/violence prevention and safety by demonstrating how conflicts can be resolved without bullying, cyber bullying, or harassment through the use of conflict-resolution strategies.
- Prevention/control of disease by reviewing communicable diseases (HIV) and the types of pathogens, such as bacteria, viruses, and fungi and by describing how the immune system fights and protects against pathogens.
- Environmental/consumer health by discussing the effects of consumer and environmental health messages on the community.

LIBRARY - Students learn about:

- Information literacy by using the library catalog and digital sources to find resources by conducting author, title, subject, keyword, and Boolean searches; assembling facts, opinions, and point of view; and organizing an information product that presents different types of information.
- Independent learning by exploring a range of sources to find information of personal interest or well-being and applying the information to real-life purposes; comparing and contrasting the various genres of literature including mythology, short stories, drama, poetry, fiction and non-fiction; and evaluating the information-seeking process at each stage as it occurs and making adjustments.
- Social responsibility by recognizing multicultural books that reflect the heritage and culture of groups within the United States; recording resources used to prepare a bibliography and citing sources; following copyright guidelines; and helping to organize and integrate the contributions of the group into information products.

MUSIC - Students learn about:

- Rhythm by moving to beat groupings (duple, triple, mixed meter) reading and creating notated rhythms and performing organized folk dances.
- Melody by matching pitch with their singing voice, reading, playing and creating melodic patterns, contour, and notation in the diatonic C, F, G scales on recorder and instruments.
- Harmony by singing, playing and reading two- and three-part harmony and playing two- and three-part chord accompaniments from scores on barred instruments.
- Form by creating, performing, and analyzing introductions, codas, interludes, AB, ABA, rondo (ABACA), and theme and variations forms.
- Expressive qualities by categorizing orchestral instruments, listening to and analyzing music from varied cultures, playing instruments using proper technique, and reading and writing musical symbols.

PHYSICAL EDUCATION - Students learn about:

- Object movement skills by performing skills such as throwing and dribbling a ball with force and accuracy in a dynamic environment.
- Locomotor and nonlocomotor movement skills by performing movement sequences with variations in speed, level, and force.
- Expressive movement and dance by performing movement sequences to a beat individually, with a partner, or as part of a group.
- Physical fitness by demonstrating proper knowledge of warm-ups, conditioning exercises, and cool-down techniques that target aerobic endurance, flexibility, muscular endurance, and muscular strength.
- Responsibility and cooperation by following classroom rules; interacting positively with others; and demonstrating respect, teamwork, and sportsmanship.

VISUAL ARTS - Students learn about:

- Criticism by describing, analyzing, and judging the characteristics of the elements of art and principles of design and supporting their judgments with observation, analysis, historical/cultural context, and/or personal response.
- Aesthetics by debating and defending their own artistic choices and others on a variety of aesthetic issues.
- History by engaging in artistic research, to analyze and justify the impact of materials, processes, purposes, and functions of artworks in their cultural/historical context.
- Production by using a variety of lines, shapes, colors, textures, forms, and space to create pattern, balance, value, movement, and contrast through drawing, painting, clay, printmaking, 2-D and 3-D, weaving, and digital and mixed media.

ONLINE DATABASES

The following online databases are funded by the State of Nevada and the Curriculum and Professional Development Division of the Clark County School District. **Note: See your school librarian for guidance and access codes.**

ABC-CLIO is a publisher of educational and reference products. These databases focus on history and social studies resources for the scholar, student, teacher, and librarian in universities and secondary schools. Refer to **databases.abc-clio.com**.

CultureGrams fosters understanding and appreciation of the world's countries and people by creating and publishing excellent content. CultureGrams is a widely used cultural reference and curriculum product. Refer to **online.culturegrams.com**.

EBSCO provides access to newspaper, magazines, and professional periodicals, as well as, a wealth of other online resources. There are also professional resources for educators. Refer to **search.ebscohost.com.**

Gale Databases include General Reference Center Gold, Informe, Educator's Reference Complete, Discovering Collection, Junior Reference Collection, Junior Edition K–12, Student Edition K–12, Kids Infobits, Student Resources in Context, and Science in Context. These databases provide a wealth of resources across all levels and curriculum. Refer to **galesites.com/menu/index.php?loc=nvk12**.

Grolier's Online includes two encyclopedias including The New Book of Knowledge and Grolier's Multimedia Encyclopedia. Once within either resource, there are tabs across the top for elementary school, middle school, high school, and adults. Refer to **go-kids.grolier.com** and **go-passport.grolier.com**.

TeachingBooks.net is a collection of resources designed to generate enthusiasm for books and reading by bringing authors, illustrators, and engaging resources about books for children and teens to every school, library, and home. Refer to **www.teachingbooks.net/home**.