

6TH GRADE MATH

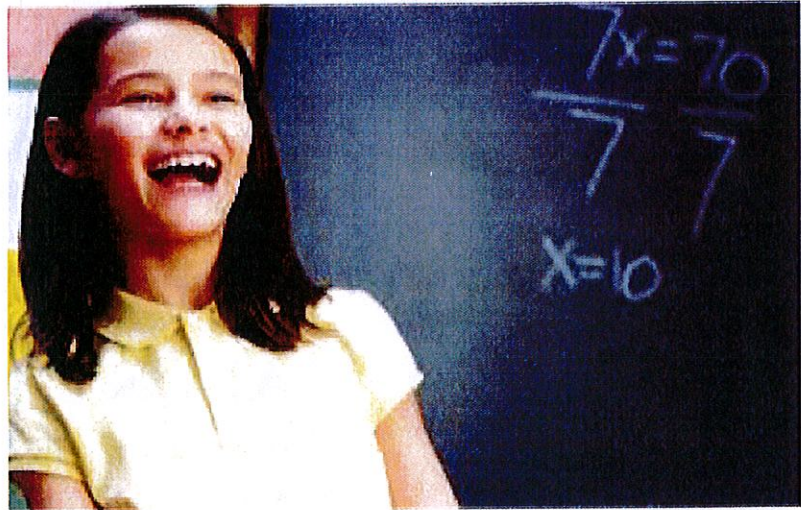
Becky Blanchard | Jodie Hott | Laura Pennell

Home Connection

- Designate a time for homework nightly in your home.
- Keep up with what your child is learning in math. Ask them to show you examples.
- Prompt your child to face challenges positively and see mathematics as a subject that is important. Avoid Statements like "I wasn't good at math".
- Encourage your child to stick with whenever a problem seems difficult. This will help your child see that everyone can learn math.
- Praise your child when he or she makes an effort, and share in the excitement when he or she solves a problem or understands something for the first time.
- Don't be afraid to reach out to your child's teacher- you are an important part of your child's education.

Resources

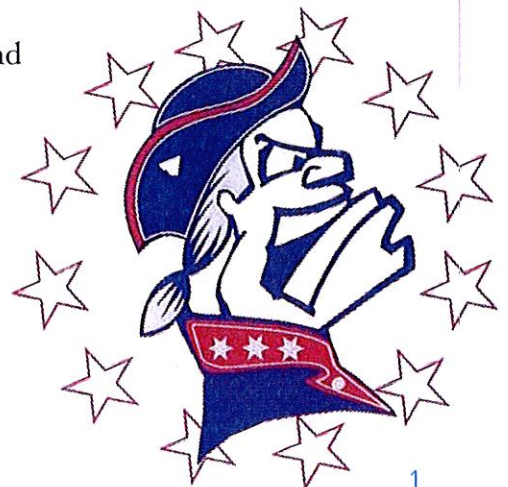
- For more information on the Common Core State Standards for Mathematics, go to <http://www.corestandards.org/Math/>
- For math games and challenges to do at home, go to <http://www.figurethis.org/> download.



6th Grade Math

In Sixth Grade math we will be completing a more in-depth study of topics covered in earlier grades as well as introducing new topics of study. Some of the main concepts include: all four operations with fractions and decimals, percents, statistics, algebraic equations and expressions, inequalities, area/surface area/volume, proportions and the coordinate plane.

All students have received and are currently working on their Sept. math calendars. Calendars count as a test grade each month and are one of our main methods of review for End of Year testing. Pre-



what part of

$$\frac{a^2 - b^2}{a^2 + b^2} = \frac{(a - b)(a + b)}{(a - b)(a + b)}$$

don't you understand?

Course Map

- Unit 1: All operations with fractions and decimals, Factors, Multiples, Prime/Composite, Distributive Property
- Unit 2: Integers and the Coordinate Plane
- Unit 3/4: Expressions, Equations, Inequalities, Order of Operations, Function Tables, Independent/Dependent Variables
- Unit 5: Ratios, Rates, Proportions, Percents, Measurement Conversions
- Unit 6: Area of parallelograms, triangles, trapezoids, and composite figures, Volume, Surface Area
- Unit 7: Statistical Measures, Line Plot, Histogram, Box-and-Whisker Plot

checks are offered throughout the month so students may correct their work before final submission. All students have been using their Math Term Notebooks to take notes in class. Students and parents alike can use this resource to help with homework, prepare for tests and quizzes, as well as the monthly math calendar.

Morning math tutoring sessions will begin starting the week of Sept. 21st on Wednesdays & Thursdays at 8:00 am. On Wednesdays we will cover topics from class and on Thursdays we will work primarily on math calendars.

ALEKS

In grades 6, 7 and 8, all students participate in ALEKS. ALEKS is an adaptive computer software tool that meets students on their skill level and maps out a path for progress. The use of ALEKS is beneficial for students to practice some of the more basic skills which then allows teachers to spend instructional time on critical thinking tasks and working with small groups of students. A separate letter detailing grade level expectations for ALEKS will be sent home by your child's classroom teacher.

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6TH GRADE SCIENCE

Mike Jackson | Lara Miller | Freddy Wang

Home Connection

- Visit the teacher's webpage for current course information.
- Log on to Parent Portal to review your student's grades.

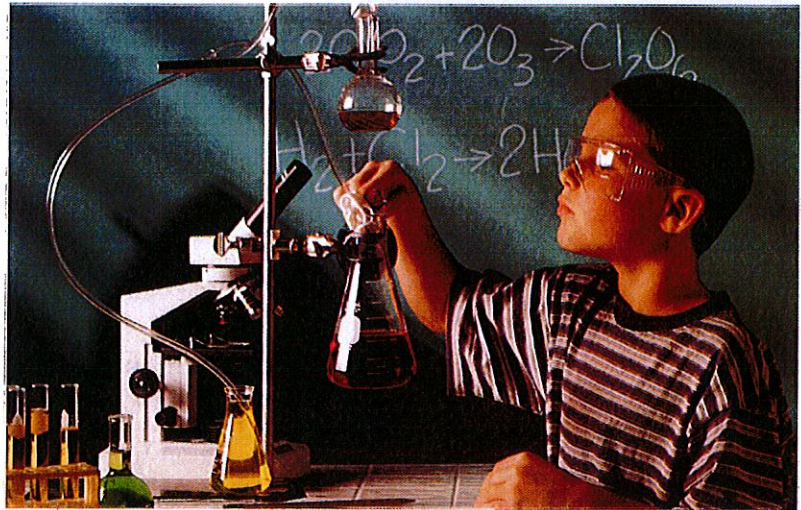
Resources

We link various resources such as Quizlet, Blendspace, Kahoot!, Google Classroom/Canvas, Youtube directly from our webpages.

Parent Portal is a tool to stay informed and engaged in your child's education.
<https://cabarrus.powerschool.com/public/home.html>

Homework Help: On this page you will find resources to help students connect science content to things they can see and experience.

school.discoveryeducation.com/homeworkhelp/science/science_homework_help.html



Science

Students in sixth grade will investigate a wide range of scientific principles from chemistry, physics, astronomy, geology, and ecology. Students will analyze complex relationships, define scientific terms, evaluate data sets, and draw conclusions.

Positive student behaviors such as following directions, being organized, and good attendance will help ensure a successful year in science.

Students are required to take the North Carolina Final Exam for 6th Grade Science.





Course Map

Unit 1: Chemistry - Students will learn about the properties of the states of matter such as density, solubility, melting point.

Unit 2: Physics - Students will learn about the methods and properties of heat transfer. Furthermore, they will learn about the properties of energy such as light, sound, and earthquakes.

Unit 3: Astronomy - Students will learn about the various celestial cycles such as tides, eclipses, seasons, etc. They will briefly study the planets of the solar system and space exploration and discoveries.

Unit 4: Geology - Students will study how rocks become soil and the properties of soil necessary for developing life.

Unit 5: Ecology - Students will study the parts of plants and flowers. Then they will study the biomes of the world.

Science as Inquiry

Traditional laboratory experiences provide opportunities to demonstrate how science is constant, historic, replicable, and global. We will begin teaching scientific inquiry through our first mini-unit and reinforce those skills all year.

We also cover current events quarterly to emphasize the relevance of science and technology in our global environment.

NC Standard Course of Study

Please visit the website listed below to review specific curriculum details and content. Sixth grade science instruction, assessments, projects, and the NCFE are based on the expectations set forth in the Essential Standards Curriculum document.

www.ncpublicschools.org/docs/acre/standards/new-standards/science/6-8.pdf

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6TH GRADE SOCIAL STUDIES

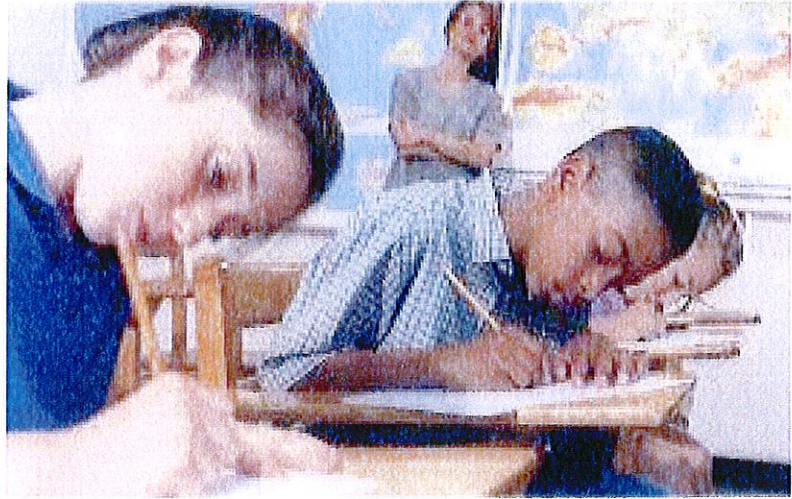
Lori Gilbert | Mark Michalski | Lashawn Summers

Home Connection

- Encourage student to review notes and vocabulary for at least 10 minutes each night.
- Have your student share the information they are learning about social studies.
- Keep up with your teacher's webpage which includes updated information in regards to what they are learning each unit. This may include internet links and important class documents.
- Check your child's grade in the parent portal on a weekly basis.
- Email your child's teacher with any questions or concerns.

Resources

There is no specific textbook for this course. A lot of the information is maintained through the teacher websites, handouts and notes. It is important students have a well-maintained notebook to keep all of their social studies resources in a centralized location. After a major quiz/test, topic specific handouts may be taken out and kept at home. **DO NOT THROW THEM AWAY.**



History in the 6th Grade

Students in sixth grade will continue to expand the knowledge, skills and understandings acquired in the fourth and fifth grade studies of North Carolina and the United States by connecting those studies to their first formal look at a study of the world. Sixth graders will focus heavily on the discipline of geography and the characteristics of civilizations past and present. Students gain an understanding of the emergence, expansion and decline of civilizations and societies from the beginning of human existence to the Age of Exploration.





Course Map

- Unit 1: Civilizations- Students will be able to independently use historical thinking to analyze and evaluate the emergence of civilizations, societies, and regions over time.
- Unit 2: Expansion and Empire- Students will be able to independently use historical thinking to analyze and evaluate the expansion of civilizations, societies, and regions over time.
- Unit 3: Diffusion and Collapse- Students will be able to independently use historical thinking to analyze and evaluate the decline of civilizations, societies, and regions over time.
- Unit 4: Interaction- Students will be able to independently use historical thinking to analyze and evaluate the interaction of civilizations, societies, and regions over

Additionally, the course includes two types of essential standards – one that identifies the skills that students should master during the course of the year and another that identify the knowledge and understandings. The skills should be taught within the context of applying knowledge and understandings to a study of the ancient world.

Students will learn how to read, interpret and analyze primary and secondary historical resources and how they impact current society.

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6TH GRADE ELA

Annamarie Gula | Luci Turner | Emily Waddington

Home Connection

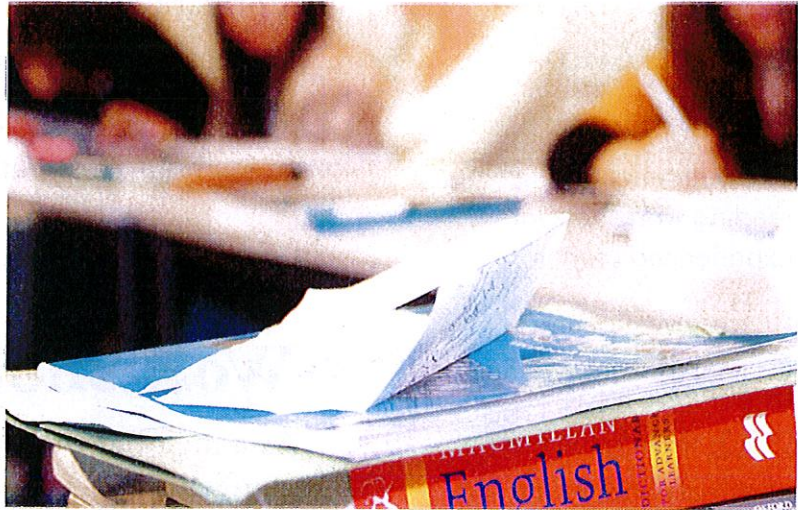
- Designate a time for reading nightly in your home.
- Keep up with what your child is reading and talk often about the book.
- Encourage writing, whether it's via journaling, emailing, or larger tasks.
- An easy way to discuss literary elements with your child is to watch a favorite show together as a common text.

Resources

Students can access Destiny Quest using HRMS media center link from our homepage. They can build online book shelf of books they would like to read.

Library Cards

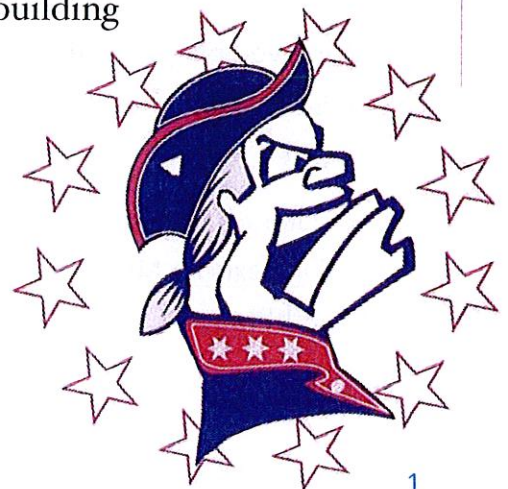
Does your child have a library card? Public libraries are a great resource for all students. Stop by your local branch and sign your student up for their very own card!



Reading

In 6th grade we use the reading and writing workshop approach to our literacy study. A big change from elementary to middle school reading is the emphasis on analytical reading practices as opposed to building fluency and literal comprehension.

Students are expected to read 20-30 minutes nightly to strengthen the skills taught in class.





Course Map

Unit 1- Agency & Independence: Launching reading workshop with experienced readers.

Unit 2- Investigating Characters Across Series

Unit 3- Raising the level of personal narrative edging towards memoir (Narrative Writing)

Unit 4- Nonfiction Reading

Unit 5- Developing Critical Lenses for Informational Reading

Unit 6- Nonfiction Books (Informational Writing)

Unit 7- Tackling Complex Texts

Unit 8- Developing Analytical Reading Practices: Social Issues Book Clubs

Unit 9- Literary Essays: Analyzing Texts for Meaning, Craft, and Tone (Argumentative Writing)

Writing

Writing is a major focus in this grade. The students start the year with expanding their narrative writing skills. They will also work with informational and argumentative writings later in the year. Students will develop stronger skills in sentence structure, grammar, and writer's craft throughout the year.

Workshop

As a member of a workshop classroom, students will read independently and meet with partnership/ clubs often. Work in the classroom is focused on shared reading experiences. Reflection, discussion, and writing about reading are important components of daily work. Students should have a composition notebook or binder for evidence of their work towards standards.

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