

Bath Middle School

English/Language Arts Curriculum Overview

6th Grade

Standards: [ELA Common Core Standards Grade 6](#)

Topics Covered

Semester 1	Semester 2
Roots and Affixes Test Taking Skills Personal Narrative Figurative Language <i>Stormbreaker – Action and Adventure</i>	Argumentative Writing Punctuation Varied Sentence Patterns Research Project and Presentation <i>Ella Enchanted – Fantasy</i>

Focus Skills and Concepts

Reading

- Use different resources for learning the meaning of an unknown word.
- Use reading strategies such as synthesizing, asking questions, making connections, and visually representing information.
- Interpret figures of speech and make inferences from a text.
- Determine a theme or central idea of a text and how it is made clear through particular details.
- Explore how a particular story's or drama's plot happens as well as how the characters respond or change as the plot moves toward a resolution.

Writing

- Use and identify pronouns correctly, and correct them when misused.
- Use correct conventions of Standard English (capitalization, punctuation, and spelling) when writing.
- Write arguments to support claims with clear reasons and relevant evidence.
- Organize ideas and concepts using strategies such as compare/contrast and cause/effect.
- Summarize a chapter from a story.

Essential questions students can answer at the end of the course:

- How do I distinguish “right there” and “beyond the text” questions to improve test taking performance?
- How do I understand character development and how it shapes my understanding of the world around me?
- How do I use the eight major parts of speech in my writing?
- How can I use the six traits of writing to better my writing?
- Why is it important for me to use sensory details when writing a narrative?
- Why is it important for me to provide clear arguments and evidence during argumentative writing?
- What public speaking skills are crucial for me to have a successful research presentation?

Prerequisite skills critical for success:

- Reasonable understanding of basic writing skills
- Work effectively in small groups
- Be able to evaluate arguments from evidence in the text
- Understand how to write in complete sentences
- Understand the format of a story’s plot
- Read at grade level
- Arrive to class organized and prepared to learn

Major Projects

- Quarterly book reports
- Research presentation
- Personal narrative

Assessments

Unit Tests and Quizzes

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Math Curriculum Overview

6th Grade

Curriculum/Textbook: [Go Math! By Houghton Mifflin Harcourt](#)

Student Website: <https://www-k6.thinkcentral.com/ePC/start.do>

Standards: [Math Common Core State Standards Grade 6](#)

Topics Covered

Semester 1	Semester 2
Numbers and Operations Ratios and Rates	Expressions and Equations Geometry and Statistics

Focus Skills and Concepts

- Understand and use prime factorization, Greatest Common Factor and Least Common Multiple.
- Add, subtract, multiply and divide positive rational numbers (whole numbers, integers, decimals, and fractions).
- Solve multi-step word problems involving different contexts and operations.
- Compare and order positive and negative numbers.
- Graph ordered pairs on a coordinate plane.
- Use unit rates to solve a variety of ratio and rate problems.
- Write percent as fractions and decimals.
- Write fractions as decimals and percent.
- Solve word problems with percent of a quantity and finding the whole of a percent.
- Convert length, capacity and weight/mass using customary and metric units.
- Simplify algebraic expressions.
- Combine like terms for expressions.
- Generate and identify equivalent expressions.
- Solve simple and multi-step equations.
- Write expressions and equations to represent different relationships and word problems.
- Identify independent and dependent variables.
- Use equations and tables with expressions and equations.
- Calculate area and perimeter of polygons.
- Calculate surface area and volume of three-dimensional figures.

- Represent data in multiple ways (dot plots, box and whisker plots, stem-and leaf plot, bar graph, line graph, histograms) and make inferences based on the data.
- Find the different measures of central tendency (mean, median, mode) of a given set of data, and determine the most reliable measure for the given set.

Essential questions students can answer at the end of the course:

- How will I use rational numbers in my everyday life?
- What situations would I use percentages, decimals and fractions in everyday life?
- What is the relationship between area and perimeter, and volume and surface area?
- What are some different ways to display data and explain what the data means for a particular set of data?

Prerequisite skills critical for success:

- Understanding of basic facts in addition, subtraction, multiplication, and division from 0-12
- Addition, subtraction, multiplication, and division of fractions
- Basic geometric formulas of area and perimeter for rectangles, triangles
- Basic organizational skills

Assessments

Pre-Assessment

Mid-Year Assessment

End of Year Assessment

End of Module Assessments

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Science Curriculum Overview

6th Grade

Curriculum/Textbook: Glencoe Science

[The Nature of Matter](#)

[Motion, Forces, and Energy](#)

[Earth Materials and Processes](#)

[The Changing Surface of the Earth](#)

[Ecology](#)

Standards: [Michigan Grade Level Content Expectations for 6th Grade Science](#)
[Next Generation Science Standards \(6-8\)](#)

Topics Covered

Semester 1	Semester 2
Science Processes & Lab Safety The Nature of Matter <ul style="list-style-type: none"> - Atoms - States of Matter Motion, Forces, and Energy <ul style="list-style-type: none"> - Energy - Thermal Energy Earth Materials and Processes <ul style="list-style-type: none"> - Rock Cycle 	Earth Materials and Processes (cont.) <ul style="list-style-type: none"> - Plate Tectonics - Earthquakes/Volcanoes The Changing Surface of the Earth <ul style="list-style-type: none"> - Weathering and Soil - Geologic Time and Dating Ecology <ul style="list-style-type: none"> - Populations & Interactions of Life - Abiotic and Biotic Factors Magnetism

Focus Skills and Concepts

- Describe the rules and procedures that keep students safe in the lab.
- Identify the steps in the scientific method and the scientific equipment used in lab.
- Create an accurate representation of an atom on the Periodic Table (including the correct number and location of protons, neutrons, and electrons).
- Explain the motion, speed, and arrangement of atoms for a solid, liquid, and gas.
- Identify various kinds of energy and transfers of energy in the real world.

- Explain everyday examples where conduction, convection, and radiation are used to transfer thermal energy.
- Describe how sedimentary, metamorphic, and igneous rocks are formed and classified.
- Explain how plate tectonics form volcanoes, earthquakes, and mountains.
- Define and give examples of weathering and erosion.
- Use fossils to determine the geologic time period of a layer of rock.
- Draw and explain relationships in food webs of producers, consumers, and decomposers.
- Identify the living and non-living components of an ecosystem on a nature walk.
- Explain how a compass works using the magnetic field of the Earth.

Essential questions students can answer at the end of the course:

- What are some examples of science in the real-world?
- How do humans impact Earth and what can they do to help conserve Earth's resources and ecosystems?
- How do I use basic tables and graphs to understand scientific concepts and identify trends?
- How do I apply the scientific method to conduct experiments and design models?

Prerequisite skills critical for success:

- Grade level reading skills for comprehension of informational text
- Basic math skills (calculator functions for problem solving, skip counting for creating scales on graphs, basic knowledge of graph types)
- Basic organizational and study skills

Major Projects

- Create a model of an atom
- Apply knowledge of potential and kinetic energy to design and build a paddle boat
- Volcano/Earthquake poster

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Social Studies Curriculum Overview

6th Grade

Curriculum/Textbook: [Oakland Public Schools](#)

Standards: [Michigan Grade Level Content Expectations for 6th Grade Social Studies](#)

Topics Covered

Semester 1	Semester 2
Foundations in Social Studies Geography of the Western Hemisphere North America	South America Europe and Russia Australia and Oceania

Focus Skills and Concepts

- Use historical analysis and inquiry to study the past.
- Describe and use themes of history to study patterns of change and continuity.
- Use historical perspectives to study global issues faced by humans long ago and today.
- Describe how ancient peoples first arrived in the western hemisphere and how the growth of civilizations occurred.
- Describe the accomplishments and contributions of ancient civilizations in the western hemisphere.
- Use a variety maps to study the world.
- Use the fundamental themes of geography (location, place, movement, region, and human-environment interaction) to describe places on earth.
- Describe and give examples of different types of economic systems.
- Describe patterns and networks of economic interdependence, including trade.
- Describe and give examples of different types of political systems.
- Describe the major activities of government, including making and enforcing laws, providing services and benefits to individuals and groups, assigning individual and collective responsibilities, generating revenue, and providing national security.
- Describe the landforms, climates, and human characteristics of regions in the western hemisphere and how it influences the way people live.
- Explain how humans modify and adapt to their environment.
- Describe how technology creates patterns and networks that connect people, products, and ideas.

- Explain how forces of conflict and cooperation among people influence the division of Earth's surface and resources.
- Describe the characteristics of nation-states and how they may interact.
- Explain that nations interact with one another through trade, diplomacy, treaties and agreements, humanitarian aid, economic sanctions and incentives, and military force, and threat of force.

Essential questions students can answer at the end of the course:

- Where are countries located throughout the world?
- What are the environments and people like in different regions of the world?
- How do nations around the world depend on and interact with each other?
- What contributions have ancient civilizations provided to the modern world?

Prerequisite skills critical for success:

- Basic map skills
- Critical thinking skills
- Reading and writing skills