
Learning Goals 2019-2020

— Grade 8 —

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English Language Arts

Students will...

- Analyze and summarize the central theme and cite evidence from the text to support points made using different genres of literacy and informational texts.
- Understand the research process using multiple sources and MLA format to cite sources and practice paraphrasing to avoid plagiarism.
- Demonstrate the different stages of the writing (i.e. prewriting, editing, revising, etc.) and use technology to produce and publish writing.
- Complete multimedia, visual, and oral presentations that are focused and use appropriate details.
- Write arguments to support claims with clear reasons and relevant evidence.
- Understand the author's point of view, purpose, and response to conflicting evidence and viewpoints.
- Analyze conflicting information on the same project and identify where the texts disagree on matters of fact or interpretation.

Mathematics

Students will...

- Calculate and simplify radicals, integer exponents, and monomials.
- Analyze and solve multi-step one-variable equations.
- Analyze and use transformations and angle relationships to solve problems.
- Define, evaluate, graph, and compare functions.
- Analyze and compare linear relationships.

Science

Students will...

- Understand and apply middle school lab safety and utilize relevant procedures.
- Understand and apply the experimentation process, including the use of data tables and graphing.
- Understand and apply concepts, laws, and theories related to solids, liquids, gases, and plasma.
- Understand and apply concepts and laws related to:
 - The classification of matter
 - Chemical bonding
 - Chemical reactions
 - Moving objects
 - Acceleration and momentum
- Understand and apply concepts, theories, and models related to reading the periodic table and atomic structure.
- Recognize simple machines, and apply and understand concepts related to levers.

Social Studies

Students will...

- Identify the challenges and describe the reasons for the American Revolution (including the *Declaration of Independence*) and the formation of a government for a new nation.
- Understand the organization and function of the three branches of government as outlined in the U.S. and Maine Constitutions (including law making), and analyze how the Constitution has been amended to reflect the changing needs and attitudes of the U.S.
- Understand America's geographic expansion (Manifest Destiny), the increased power of the federal government, including the industrial growth of the North, and the agricultural culture of the South, and how this led to reform movements in America.

Health

Students will...

- **Demonstrate three (3) strategies to reduce negative stress.**
- **Link four (4) diseases to poor eating habits, food choices, lifestyle choices, and heredity.**
- **Draw at least five (5) conclusions of the effects alcohol and other illicit drug use will have on their health.**
- **Understand why abstinence is the only 100% method to avoid consequences of sexual activity.**
- **Describe five (5) lifestyle choices that can reduce the risk of cardiovascular diseases.**
- **Identify the early warning signs of eight (8) common cancers.**

Music Experiences

Class

Students will...

- Describe how the Beatles were an influence on music and society.

Band

Students will...

- Perform developmentally appropriate band music in a variety of styles.
- Identify, write and play notes within one octave plus 6 more.
- Identify, write and play rhythms using 2 sixteenths and eighth notes as well as cut time.

Chorus

Students will...

- Perform developmentally appropriate choral music in a variety of styles.
- Review, demonstrate, and refine various musical skills necessary for chorus.

Physical Education

Students will...

- Complete the physical fitness test and show improvement in 5 out of 7 test by the end of the six-week session.
- Participate in healthy activities, supporting them in physical fitness as measured by improvement on my physical fitness test scores.
- Improve motor skills and manipulative skills through healthy activities. Students will demonstrate their knowledge of motor skills and manipulative skills through skills assessments and written tests.
- Learn various techniques to measure cardiovascular conditioning. Students will demonstrate their knowledge by completing cardiovascular testing and recording their results. Students will increase their cardiovascular conditioning as measured through fitness testing during the six-week session.
- Use fitness test results and cardiovascular testing results to develop a fitness portfolio.

Technology Education

Students will...

- **Work safely in class.**
- **Identify different trades that offer job opportunities.**
- **Demonstrate a possible solution to a given problem.**
- **Understand and make basic project plans.**

Visual Art

Students will...

- Discuss styles of art and demonstrate understanding through practice exercises.
- Learn printing techniques and apply them to a printing project that introduces the artwork of Andy Warhol.
- Demonstrate skills in the use of media, tools and techniques in the process of painting and use them in a painting project.
- Analyze and assess their own work when completed, based on given guidelines.