

# Mathematics

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## Ratios and Proportional Relationships

- Analyze proportional relationships and use them to solve real-world and mathematical problems.

## The Number System

- Apply and extend previous understandings of operations with fractions to add, subtract, multiply, and divide rational numbers.

## Expressions and Equations

- Use properties of operations to generate equivalent expressions.
- Solve real-life and mathematical problems using numerical and algebraic expressions and equations.

## Geometry

- Draw, construct and describe geometrical figures and describe the relationships between them.
- Solve real-life and mathematical problems involving angle measure, area, surface area, and volume.

## Statistics and Probability

- Use random sampling to draw inferences about a population.
- Draw informal comparative inferences about two populations.
- Investigate chance processes and develop, use, and evaluate probability models.

## Mathematical Practices

- Make sense of problems and persevere in solving them.
- Reason abstractly and quantitatively.
- Construct viable arguments and critique the reasoning of others.
- Model with mathematics.
- Use appropriate tools strategically.
- Attend to precision.
- Look for and make use of structure.
- Look for and express regularity in repeated reasoning.

# Science

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## Physical Science

- Matter and its Interactions.
- Motion and Stability: Forces and Interactions.
- Energy.
- Waves and their Applications in Technologies for Information Transfer.

## Life Science

- From Molecules to Organisms: Structures and Processes.
- Ecosystems: Interactions, Energy, and Dynamics.
- Heredity: Inheritance and Variation of Traits.
- Biological Evolution: Unity and Diversity

## Earth and Space Sciences

- Earth's Place in the Universe.
- Earth's Systems.
- Earth and Human Activity.

## Engineering, Technology & Application

- Engineering Design.

## Weekly Stem Lab Activities

# Social Studies

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- Civics
- Economics
- Geography
- History
- Social Studies Skills

# Bible

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*Lightbearers* is designed to help our students clearly understand the tenets of the Christian worldview and how they compare to the doctrines of the leading non-Christian worldviews of our day.

Students will learn how to apply their Christian faith to every area of life: theology, philosophy, ethics, biology, sociology, psychology, law, politics,



# Seventh Grade Curriculum

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*Educate the Mind*

*Nurture the Spirit*

*Change the World*

Matthew 5:14-16

“You are the light of the world. A city set on a hill cannot be hid. Nor do men light a lamp and put it under a bushel, but on a stand, and it gives light to all in the house. Let your light so shine before men, that they may see your good works and give glory to your Father who is in heaven.”



844 NE 78<sup>th</sup> Street  
Seattle, WA 98115  
206.526.0762

## Seventh Grade Reading

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### Read Grade Level Text

- Read and comprehend text accurately.

### Comprehension: Key Ideas and Details

- Determine the meaning of words and phrases as they are used in a text, including figurative and connotative meanings; analyze the impact of a specific word choice on meaning and tone.
- Analyze how a drama's or poem's form or structure (e.g., soliloquy, sonnet) contributes to its meaning.
- Explain how an author develops the point of view of the narrator or speaker in a text.
- Compare and contrast the experience of reading a story, drama, or poem to listening to or viewing an audio, video, or live version of the text, including contrasting what they "see" and "hear" when reading the text to what they perceive when they listen or watch.

### Comprehension: Craft and Structure

- Determine the meaning of words and phrases as they are used in a text, including figurative and connotative meanings; analyze the impact of a specific word choice on meaning and tone.
- Analyze how a drama's or poem's form or structure (e.g., soliloquy, sonnet) contributes to its meaning.
- Explain how an author develops the point of view of the narrator or speaker in a text.
- Compare and contrast the experience of reading a story, drama, or poem to listening to or viewing an audio, video, or live version of the text, including contrasting what they "see" and "hear" when reading the text to what they perceive when they listen or watch.

## Eighth Grade Reading

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### Comprehension: Integration

- Analyze the extent to which a filmed or live production of a story or drama stays faithful to or departs from the text or script, evaluating the choices made by the director or actors.
- Analyze how a modern work of fiction draws on themes, patterns of events, or character types from myths, traditional stories, or religious works such as the Bible, including describing how the material is rendered new.
- Compare and contrast a fictional portrayal of a time, place, or character and a historical account of the same period as a means of understanding how authors of fiction use or alter history.
- By the end of the year read and comprehends literature, including stories, dramas, and poems, in the grades 6-8 text complexity band proficiently, with scaffolding as needed at the high end of the range.

## Writing

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### Text Types and Purposes

- Write arguments to support claims with clear reasons and relevant evidence
- Write informative/explanatory texts to examine a topic and convey ideas, concepts, and information through the selection, organization, and analysis of relevant content.
- Write narratives to develop real or imagined experiences or events using effective technique, relevant descriptive details, and well-structured event sequences.

### Range of Writing

- Write routinely over extended time frames (time for research, reflection, and revision) and shorter time frames (a single sitting or a day or two) for a range of discipline-specific tasks, purposes, and audiences.
- Reflect on writing, revise and set goals.

## Writing

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### Production and Distribution of Writing

- Produce clear and coherent writing in which the development, organization, and style are appropriate to task, purpose, and audience.
- With some guidance and support from peers and adults, develop and strengthen writing as needed by planning, revising, editing, rewriting, or trying a new approach.
- Use technology, including the Internet, to produce and publish writing as well as to interact and collaborate with others; demonstrate sufficient command of keyboarding skills to type a minimum of three pages in a single sitting.

### Research to Build and Present Knowledge

- Conduct short research projects to answer a question, drawing on several sources and refocusing the inquiry when appropriate.
- Gather relevant information from multiple print and digital sources; assess the credibility of each source; and quote or paraphrase the data and conclusions of others while avoiding plagiarism and providing basic bibliographic information for sources.
- Draw evidence from literary or informational texts to support analysis, reflection, and research.
- Use grade appropriate grammar and conventions in writing.

## Spanish

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Students will participate in a Spanish class for (two) fifty-minute class periods each week that will focus on communicating in the Spanish language, learning about the Spanish culture, making connections with different cultures, and learning about community.