



Seventh Grade Standards of Learning

I. Academic Standards

The following academic standards apply for Seventh Grade at Wornick Jewish Day School. These standards reference Common Core, California State standards, and Next Generation Science standards. More information on these standards can be found at www.corestandards.org, www.cde.ca.gov, and <http://www.nextgenscience.org>.

Language Arts

- **Reading: Literature**
 - Cite textual evidence to support analysis and draw inferences.
 - Determine themes or central ideas and explain how they are developed.
 - Analyze how plot and setting interact.
 - Analyze how text structure contributes to meaning.
 - Analyze how an author develops and contrasts different points of view.
 - Compare and contrast fictional and historical accounts of the same time period.
 - Read and comprehend literary texts independently.
- **Reading: Informational Text**
 - Determine an author's point of view or purpose and explain how it is conveyed.
 - Read and comprehend literary nonfiction and informational texts.
- **Writing**
 - Plan, revise, edit, and strengthen writing with attention to purpose and audience.
 - Write arguments supported by logical reasoning and relevant evidence.
 - Write informative texts that develop ideas through effective organization and analysis.
 - Write narratives using effective techniques, point of view, descriptive details, and organized event sequences.
- **Speaking & Listening**

- Participate effectively in collaborative discussions.
 - Present claims and findings using relevant information and emphasizing key ideas.
 - Use multimedia and visual displays to enhance presentations.
 - Plan and deliver well-organized oral presentations.
 - **Language**
 - Demonstrate command of standard English grammar, including phrases and clauses.
 - Use correct capitalization, punctuation, and spelling.
 - Choose precise and concise language while eliminating redundancy.
 - Determine the meaning of unfamiliar and multiple-meaning words.
 - Understand figurative language, word relationships, and nuances in meaning.
 - Use academic and domain-specific vocabulary accurately.
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Science

- **Engineering Design**
 - Define design problems using clear criteria and constraints.
 - Develop and test models to improve design solutions.
 - Analyze test data to refine and optimize designs.
 - Evaluate competing design solutions using a systematic process.
- **Heredity**
 - Develop and use models to explain how changes in genes affect structure and function.
- **Biological Evolution**
 - Apply scientific evidence to explain evolution by analyzing similarities and differences among organisms.
- **Earth Science**
 - Model the cycling of water through Earth's systems.
- **Matter and Interactions**
 - Analyze evidence to determine when chemical reactions occur.
 - Model conservation of mass during chemical reactions.
- **Ecosystems**
 - Analyze how resource availability affects ecosystems.
 - Explain patterns of interactions among organisms.
 - Model the cycling of matter and flow of energy through ecosystems.

- Evaluate solutions for maintaining biodiversity and ecosystem health.
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Hebrew (Non-Native)

- **Reading**
 - Read Hebrew fluently with accuracy, appropriate pace, and expressive intonation.
 - Demonstrate understanding of Hebrew vocabulary and grammar.
 - Comprehend and analyze written texts.
 - Answer comprehension questions accurately and provide thoughtful insights.
 - Demonstrate strong listening comprehension of spoken Hebrew.
 - **Writing**
 - Write narrative pieces describing activities, events, and social experiences.
 - Summarize and support viewpoints on familiar or researched topics with clear reasons.
 - **Listening & Speaking**
 - Exchange preferences, feelings, opinions, and basic advice on familiar topics.
 - Present information on familiar and researched topics clearly and confidently.
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Hebrew (Native)

- **Reading**
 - Read Hebrew fluently with accuracy, appropriate pace, and expressive intonation.
 - Demonstrate a strong understanding of Hebrew vocabulary and grammar.
- **Writing**
 - Write and organize texts for a variety of purposes.
 - Express and support a viewpoint using evidence and research.
- **Listening & Speaking**
 - Maintain conversations by explaining and comparing preferences, opinions, and advice on familiar academic and social topics.

- Participate effectively in complex discussions with multiple participants on a wide variety of topics.
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Jewish Studies

- **TaNaKH**
 - Connect TaNaKH texts to personal experiences and contemporary moral issues.
 - Recognize and analyze multiple interpretations of TaNaKH across time.
 - **Jewish Life**
 - Demonstrate leadership during *Tefillah*.
 - Understand the themes and traditions of Jewish holidays through texts.
 - Collaborate productively in *Chevruta* learning.
 - Articulate personal Jewish identity through *Middot* (values).
 - Deliver presentations supported by Jewish values, research, and evidence.
 - **Jewish History**
 - Analyze key events in Jewish history during the Middle Ages.
 - Evaluate primary and secondary historical sources.
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Social Studies

- **Medieval & Early Modern History**
 - Compare the geographic, political, economic, religious, and social structures of Mesoamerican and Andean civilizations.
 - Analyze the civilizations of Ghana and Mali in Medieval Africa.
 - Analyze the civilizations of the Silk Road and Medieval China.
 - Analyze the civilization of Medieval Japan.
 - Analyze the civilization of Medieval Europe.
 - Explain the origins, accomplishments, and impact of the Renaissance, Reformation, Age of Exploration, and Scientific Revolution.
- **Historical Thinking Skills**
 - Explain relationships among historical events.
 - Create timelines and other historical representations.

- Use maps to analyze geographic, cultural, political, and economic relationships.
 - Develop historical research questions.
 - Distinguish relevant, credible, and verifiable information.
 - Analyze historical issues within their historical context.
 - **Reading for History**
 - Cite evidence from historical texts.
 - Determine and summarize central ideas.
 - Interpret domain-specific vocabulary.
 - Integrate visual and written information.
 - Distinguish fact, opinion, and reasoned judgment.
 - **Writing for History**
 - Produce clear and organized historical writing.
 - Conduct research using multiple reliable sources.
 - Evaluate sources, cite evidence, and avoid plagiarism.
 - Support historical analysis with evidence from informational texts.
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Algebra - Double Accelerated Track

- **Expressions & Equations**
 - Interpret the structure of expressions.
 - Create and solve equations in one variable.
 - Create, graph, and solve compound inequalities in one variable.
 - Rearrange formulas to highlight a quantity of interest using equation-solving strategies.
 - Represent and solve two-variable inequalities graphically.
 - Analyze and solve pairs of simultaneous linear equations.
 - Perform addition, subtraction, and multiplication with polynomials.
 - Factor quadratic polynomials.
- **Functions**
 - Read, understand, and use function notation.
 - Build new functions from existing functions using transformations.
 - Define, evaluate, and compare functions across multiple representations.
 - Interpret functions in real-world contexts, including applications such as distance-time graphs.
- **Geometry**

- Use coordinates, slope, and distance formulas to prove geometric theorems algebraically.
- **Linear, Quadratic, & Exponential Models**
 - Recognize connections between proportional relationships and linear functions, including arithmetic sequences.
 - Represent and interpret relationships between quantities using graphs, equations, and tables.
 - Compare linear, quadratic, and exponential functions to solve problems and model real-world situations.
 - Create, solve, and graph quadratic equations and functions.
 - Graph and interpret exponential functions, including geometric sequences.
- **Real Number System**
 - Extend and apply properties of exponents with integer exponents.
 - Simplify radicals.
 - Apply properties of rational and irrational numbers.
- **Statistics & Probability**
 - Investigate linear and nonlinear patterns of association in data involving two variables.
 - Summarize, represent, and interpret bivariate quantitative data.
 - Approximate and analyze lines of best fit for linear relationships.
 - Summarize, represent, and interpret bivariate categorical data.

Pre-Algebra - Single Accelerated Track

Expressions & Equations

- Write, evaluate, and simplify algebraic expressions.
- Solve multi-step equations.
- Represent and analyze proportional relationships.
- Write, graph, and solve inequalities.

Geometry

- Solve problems involving area, surface area, and volume.
- Solve area problems involving two-dimensional figures.
- Apply the Pythagorean Theorem to solve real-world problems.

Ratios & Proportional Relationships

- Use unit rates to solve real-world problems.

- Describe relationships using ratios.
- Apply proportional reasoning.
- Solve percentage problems using models.

Statistics & Probability

- Interpret and compare data displays.
- Draw informal statistical inferences.
- Develop and evaluate probability models.

Number System

- Divide fractions.
- Perform operations with decimals, integers, and rational numbers.
- Find factors and multiples.
- Represent rational numbers on number lines and coordinate planes.
- Understand positive and negative numbers in real-world contexts.
- Interpret exponents.
- Recognize and approximate irrational numbers.

Mathematical Practices

- Apply mathematics to real-world situations.
- Attend to precision.
- Construct and justify mathematical arguments.
- Recognize patterns and mathematical structure.
- Persevere in solving problems.
- Reason abstractly and quantitatively.
- Select and use appropriate mathematical tools.

Mathematics - Grade Level Track

- **Expressions & Equations**
 - Use algebraic properties to generate equivalent expressions.
 - Solve two-step equations.
 - Solve two-step inequalities.
 - Graph the solution set of one-variable inequalities and interpret the results.
 - Solve real-world and mathematical problems using numerical and algebraic expressions and equations.

- **Geometry**
 - Solve problems involving scale drawings.
 - Solve problems involving angle measures.
 - Solve area problems involving two-dimensional figures, including circles and irregular figures.
 - Solve volume and surface area problems involving three-dimensional figures, including cylinders.
 - **Ratios & Proportional Relationships**
 - Analyze proportional relationships to solve real-world and mathematical problems.
 - Compute unit rates involving fractional ratios.
 - Recognize and represent proportional relationships.
 - Represent proportional relationships using equations.
 - Solve multi-step ratio and percent problems.
 - **Statistics & Probability**
 - Interpret dot plots, histograms, and box plots using measures of center and variability.
 - Draw informal comparative inferences about two populations.
 - Develop, use, and evaluate probability models.
 - **The Number System**
 - Add, subtract, multiply, and divide signed rational numbers.
 - Represent operations with rational numbers on number lines.
 - Solve real-world and mathematical problems using the four operations with rational numbers.
 - **Mathematical Practices**
 - Apply mathematics to real-world situations.
 - Attend to precision.
 - Construct and justify mathematical arguments while evaluating the reasoning of others.
 - Recognize patterns in repeated reasoning.
 - Identify and use mathematical structure.
 - Persevere in solving problems.
 - Reason abstractly and quantitatively.
 - Select and use appropriate mathematical tools strategically.
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- **Participation**
 - Arrive prepared and dressed for physical activity.
 - Participate consistently in physical education activities.
- **Motor Skills & Movement**
 - Transfer learned skills across activities.
 - Combine movement patterns in team sports.
 - Demonstrate control using hands and feet.
 - Apply offensive and defensive strategies.
 - Design games that include offensive roles, defensive strategies, and scoring systems.
- **Fitness**
 - Demonstrate physical fitness and strength.
 - Apply appropriate warm-up and cool-down techniques.
- **Teamwork**
 - Demonstrate sportsmanship and respect for officials and participants.
 - Work cooperatively to achieve team goals.
 - Recognize and celebrate teammates' contributions.
 - Fulfill team roles and responsibilities.
 - Demonstrate leadership within team activities.
 - Foster an inclusive and supportive environment for all participants.

II. Process Goals

In addition to rigorous academic learning, Wornick emphasizes additional skills that support the whole child and prepare them for high school, college, and beyond, including: organization, critical thinking, growth mindset, collaboration, creativity, public speaking, social-emotional learning, and respect for self and others. The following process goals are a critical component of an education at Wornick Jewish Day School.

Effective Leadership Skills

- Follow directions, class rules, routines, and expectations.
- Take responsibility for actions.
- Demonstrate initiative and independence.
- Give constructive feedback to others.
- Apply constructive feedback to improve performance.
- Respect self, others, and the environment.

Effective Communication Skills

- Advocate for personal social, emotional, and academic needs.
- Participate actively and effectively in collaborative discussions.
- Ask clarifying questions to support understanding and learning.
- Collaborate respectfully and productively with peers.

Effective Learning Skills

- Keep personal space and materials organized.
- Work independently and manage responsibilities.
- Complete tasks and assignments on time with integrity.
- Use class time effectively.
- Use technology appropriately and responsibly.