



Eighth Grade Standards of Learning

I. Academic Standards

The following academic standards apply for Eighth 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

- Language Conventions
 - Applies appropriate grade-level strategies to determine or clarify the meaning of unknown or multiple-meaning words
 - Applies understanding of figurative language in writing and discussion
 - Demonstrates grade-level appropriate command of standard English grammar and conventions when writing
- Reading Nonfiction Text
 - Analyzes purpose of text and author's point of view
 - Comprehends grade level nonfiction material with accuracy
 - Distinguishes claims that are supported by reason and evidence from claims that are not
 - Identifies and uses text features
 - Reads grade level text with accuracy and fluency
 - Refers to key details when describing the main idea of a text
 - Refers to key details when drawing inferences
 - Summarizes texts and main idea
- Reading Fiction Text
 - Analyzes author's point of view
 - Analyzes purpose of text
 - Comprehends fictional grade level material with accuracy
 - Distinguishes claims that are supported by reason and evidence from claims that are not
 - Reads grade level material with accuracy
 - Reads grade level material with fluency
 - Refers to key details when describing the main idea of a text
 - Refers to key details when drawing inferences

- Summarizes text and main idea
- Writing
 - Applies the writing process (pre-writing, drafting, revising, and editing)
 - Writes informative text that examines a topic and conveys ideas clearly
 - Writes narratives using descriptive details and chronological event sequences
 - Writes persuasive text with supporting evidence
- Listening and Speaking
 - Engages in a range of collaborative discussions, building on the ideas of others and expressing their own clearly
 - Plans and delivers a variety of well-organized oral presentations

Mathematics

- Expressions and Equations - Algebra
 - Analyze and solve linear equations and pairs of simultaneous linear equations
 - Create equations and inequalities in one variable and use them to solve problems
 - Create equations in two or more variables to represent relationships between quantities
 - Interpret the structure of expressions
 - Perform arithmetic operations on polynomials
 - Rearrange formulas to highlight a quantity of interest, using the same reasoning as in solving equations
 - Reason quantitatively and use units to solve problems
 - Recognize the connections between proportional relationships, lines, and linear equations
 - Represent and solve equations and inequalities graphically
 - Solve equations and inequalities in one variable Solve systems of equations
 - Understand solving equations as a process of reasoning and explain the reasoning
- Functions - Algebra
 - Analyze functions using different representations
 - Build a function that models a relationship between two quantities
 - Build new functions from existing functions
 - Define, evaluate, compare functions
 - Interpret functions that arise in applications in terms of the context
 - Use function notation
 - Use functions to model relationships between quantities
- Geometry
 - Derive and apply the Pythagorean theorem
 - Explain congruence and similarity using physical models, transparencies, or geometry software
 - Use coordinates to prove simple geometric theorems algebraically
- Linear, Quadratic, and Exponential Models

- Construct and compare linear, quadratic, and exponential models and solve problems
- Interpret expressions for functions in terms of the situation they model
- Real Number System
 - Extend the properties of exponents to integer exponents
 - Use properties of rational and irrational numbers
- Statistics and Probability
 - Interpret linear models
 - Investigate patterns of association in data with two variables
 - Summarize, represent, and interpret data on a single count or measurement variable
 - Summarize, represent, and interpret data on two categorical and quantitative variables
- Mathematical Practices
 - Apply mathematical ideas to real life (model with mathematics)
 - Attend to precision
 - Construct viable arguments and critique the reasoning of others
 - Look for and express regularity in repeated reasoning
 - Look for and make use of structure (patterns)
 - Make sense of problems and persevere in solving them
 - Use appropriate tools strategically

Science

- Engineering Design
 - Analyze data from tests to identify the best characteristics of each that can be combined into a new solution
 - Define the criteria and constraints of a design problem with sufficient precision to ensure a successful solution
 - Develop a model to generate data for repeated testing and modification
 - Evaluate competing design solutions using a systematic process
- From Molecules to Organisms
 - Use argument supported by evidence for how the body is a system of interacting subsystems composed of groups of cells
- Matter and its Interactions
 - Analyze and interpret data on the properties of substances to determine if a chemical reaction has occurred
 - Develop a model that predicts and describes changes in particle motion when thermal energy is added or removed
 - Develop and use a model to describe how the total number of atoms does not change in a chemical reaction and thus mass is conserved
 - Develop models to describe the atomic composition of simple molecules and extended structures

- Undertake a design project to construct, test, and modify a device that either releases or absorbs thermal energy by chemical processes
- Motion and Stability
 - Plan an investigation to provide evidence that the change in an object's motion depends on the sum of the forces on the object and the mass of the object
 - Plan an investigation to show that the change in an object's motion depends on the sum of the forces on the object and the mass of the object
- Energy
 - Apply scientific principles to design, construct, and test a device that either minimizes or maximizes thermal energy transfer
 - Construct and interpret graphical data to describe the relationships of kinetic energy to the mass of an object and to the speed of an object
 - Construct, use, and present arguments to support the claim that when kinetic energy changes, energy is transferred
 - Plan an investigation to determine the relationships among particles in a kinetic energy system
- Waves
 - Develop and use a model to describe that waves are reflected, absorbed, or transmitted through various materials
 - Use mathematical representations to describe a simple model for waves that includes how the amplitude of a wave is related to the energy in a wave

Social Studies

- US History and Geography
 - Analyze the character and lasting consequences of Reconstruction
 - Analyze the divergent paths of the American people from 1800 to the mid-1800s and the challenges they faced, with emphasis on the Northeast
 - Analyze the divergent paths of the American people in the South from 1800 to the mid-1800s and the challenges they faced
 - Analyze the divergent paths of the American people in the West from 1800 to the mid-1800s and the challenges they faced
 - Analyze the early and steady attempts to abolish slavery and to realize the ideals of the Declaration of Independence
 - Analyze the multiple causes, key events, and complex consequences of the Civil War
 - Analyze the political principles underlying the US Constitution and compare the enumerated and implied powers of the federal government
 - Analyze the transformation of the American economy and the changing social and political conditions in the United States in response to the Industrial Revolution
 - Analyzes US foreign policy in the early Republic and beyond
 - Understand the foundation of the American political system and the ways in which citizens participate in it

- Understand the major events preceding the founding of the nation and relate their significance to the development of American constitutional democracy

Hebrew

- Listening and Speaking
 - Engages effectively in social and academic conversations
 - Speaks clearly and comprehensibly using correct grammatical forms
 - Understands key ideas and supporting details
 - Understands most authentic spoken language
 - Uses a wide range of appropriate vocabulary
- Reading
 - Acquires knowledge and information from new text
 - Cites several pieces of textual evidence to support an answer
 - Reads aloud text with accuracy, fluency, and expression
 - Uses detailed sentences to respond orally to comprehension questions
 - Uses knowledge of content areas to understand unknown words
- Writing
 - Creates a coherent, grammatically correct paragraph
 - Uses a wide range of appropriate vocabulary

Judaic Studies

- Jewish History
 - Analyzes the multiple causes, key events, and consequences of the Shoah
 - Describes and analyzes Israel's geopolitical situation
 - Describes and analyzes the significance and challenges of Israel as a Jewish democratic state
 - Develops and articulates personal relationship to Israel
 - Examines and compares various theological, societal, and personal legacies of the Shoah
 - Integrates a variety of sources to explain the multiple facets of Israeli culture and society
 - Uses and interprets primary and secondary sources correctly and effectively
- Jewish Life
 - Acts a role model and leader during t'fillah
 - Demonstrates leadership during all-school holiday observances
 - Demonstrates leadership during t'fillah and other prayer moments
 - Develops personal understanding and application of Jewish values
 - Displays formation of personally meaningful Jewish identity
 - Leads Torah Service with maturity and comfort
 - Works productively and constructively in chevruta
- Tanakh
 - Analyzes concepts of identity and theology in Ketuvim

- Analyzes multiple interpretations of Ketuvim that have been expressed through time
- Analyzes the motivations and personalities of characters in Esther and Ruth
- Analyzes the role of Am Yisrael in Ketuvim
- Articulates the universal aspects of specific themes and ideas in Ketuvim
- Connects Ketuvim texts to personal experience
- Differentiates between pshat and drash
- Locates correct sefer, perek, and pasuk in Tanakh
- Relates personal perspectives of modern moral issues in Ketuvim to modern world

Physical Education

- Fitness Concepts
 - Demonstrates knowledge of warming and cooling concepts
 - Demonstrates strength and flexibility at grade level
- Manipulative Skills
 - Manipulates objects with both hands and feet
- Motor Skills & Movement Patterns
 - Can apply basic offensive and defensive strategies
 - Can combine movement patterns and skills to team activities
- Movement Concepts
 - Can apply learned skills from one activity to another
 - Is able to develop a game that utilizes manipulative skills, offensive strategies and a scoring system
- Physical Education Expectations
 - Arrives to class on time, participates, dresses in PE clothes

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.

Demonstration of a Successful Learner

- Keeps organized
- Exhibits neatness and legibility
- Works independently
- Follows directions
- Follows class rules, routines, and expectations
- Works in a timely manner
- Takes initiative

- Takes responsibility for actions
- Applies constructive feedback

Demonstration of an Effective Communicator

- Respects self, others, and environment
- Collaborates with peers
- Participates in a range of collaborative discussions
- Self advocates
- Demonstrates problem solving skills
- Asks clarifying questions
- Uses technology appropriately