



7th Grade Essential Standards

Quarter 1

ELA:

- 7.RL.1.A Draw conclusions, infer and analyze by citing textual evidence to support analysis of what the text says explicitly as well as inferences drawn from the text.
- 7.RI.1.D - Explain the central/main idea(s) of a text and explain the relationship between the central idea(s) and supporting evidence; summarize the text distinct from personal opinions.
- 7.W.2.A.b - Expository: Develop informative/explanatory writing to examine a topic with relevant facts, examples, and details; establish relationships between ideas and supporting evidence.

Math:

- 7.GM.A.1 – Solve problems involving scale drawings of real objects and geometric figures, including computing actual lengths and areas from a scale drawing and reproducing the drawing at a different scale.
- 7.RP.A.3 – Solve problems involving ratios, rates, and proportional relationships.

Science:

- 6-8.PS1.A.1 - Develop models to describe the atomic composition of simple molecules and extend the structures.
- 6-8.PS1.A.4 - Develop a model that describes changes in particle motion, temperature, and state of a pure substance when thermal energy is added or removed.

Quarter 2

ELA:

- 7.RL.1.A Draw conclusions, infer and analyze by citing textual evidence to support analysis of what the text says explicitly as well as inferences drawn from the text.
- 7.RI.1.D - Explain the central/main idea(s) of a text and explain the relationship between the central idea(s) and supporting evidence; summarize the text distinct from personal opinions.
- 7.RI.2.D - Evaluate an author's argument, assessing whether the reasoning is sound and the evidence is relevant and sufficient to support the claims.
- 7.W.2.A.b - Expository: Develop informative/explanatory writing to examine a topic with relevant facts, examples, and details; establish relationships between ideas and supporting evidence.

Math:

- 7.RP.A.3 – Solve problems involving ratios, rates, percentages, and proportional relationships.
- 7.GM.A.4 – Understand the concepts of circles.
 - a. Analyze the relationships among the circumference, the radius, the diameter, the area and Pi in a circle.
 - b. Know and apply the formulas for circumference and area of circles to solve problems.

Science:

- 6-8.PS1.B.1 - Develop and use a model to describe how the total number of atoms remains the same during a chemical reaction and thus mass is conserved.
- 6-8.PS1.A.3 - Gather, analyze, and present information to describe that synthetic materials come from natural resources and how they impact society.



7th Grade Essential Standards

Quarter 3

ELA:

- 7.R.L.1.D Using appropriate text, determine the theme(s) of a text and explain the relationship between the theme(s) and supporting evidence; summarize the text distinct from personal opinions.
- 7.RI.1.B - Determine the meaning of words and phrases as they are used in the text, including figurative, connotative, and content-specific meanings using context, affixes, or reference materials.
- 7.W.2.A.c - Argumentative: Develop argumentative writing by introducing and supporting a claim with clear reasons and relevant evidence, acknowledging counterclaims, and establishing relationships between claims and supporting evidence.

Math:

- 7.NS.A.3 – Solve problems involving the four arithmetic operations with rational numbers.
- 7.EE.1.A.1 – Apply properties of operations to simplify and to factor linear algebraic expressions with rational coefficients.

Science:

- 6-8.PS3.A.1 - Construct and interpret graphical displays of data to describe the relationship of kinetic energy to the mass of an object and the speed of an object.
- 6-8.PS3.B.1 - Construct, use, and present arguments to support the claim that when the kinetic energy of an object changes, energy is transferred to or from the object.
- 6-8.PS4.A.1 - 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.

Quarter 4

ELA:

- 7.RI.1.B - Determine the meaning of words and phrases as they are used in the text, including figurative, connotative, and content-specific meanings using context, affixes, or reference materials.
- 7.RI.3.B Compare and contrast how two or more authors writing about the same topic make decisions about craft and structure.

Math:

- 7.GM.B.6
 - a. Find the area of triangles, quadrilaterals, and other polygons composed of triangles and rectangles.
 - b. Find the volume and surface area of prisms, pyramids, and cylinders.

Science:

- 6-8.PS2.A.2 - Plan and conduct 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.
- 6-8.PS2.B.1 - Analyze diagrams and collect data to determine the factors that affect the strength of electric and magnetic forces.