Quarter 1

PUSD 6th Grade Summary of Standards

READING		
Description	**Code**	**AZ State Standard**
Information Text Structure	6.RI.5	Analyze how a particular sentence, paragraph, chapter, or section fits into the overall structure of a text and contributes to the development of the ideas.
Word/Phrase Meaning	6.RI.04	Determine the meaning of words and phrases as they are used in a text, including figurative, connotative, and technical meanings.
Cite Text Evidence	6.RL.1	Cite textual evidence to support analysis of what the text says explicitly as well as inferences drawn from the text.
Central Idea and Summary	6.RI.02	Determine a central idea of a text and how it is conveyed through particular details; provide a summary of the text distinct from personal opinions or judgments.
Analyze Key Details/Events	6.RI.03	Analyze in detail how a key individual, event, or idea is introduced, illustrated, and developed in a text (e.g., through examples or anecdotes).

MATH		
Description	**Code**	**AZ State Standard**
Operations with Multidigit Decimals	6.NS.B.3	Fluently add, subtract, and divide multi-digit decimals using the standard algorithm for each operation.
Greatest Common Factor and Least Common Multiple	6.NS.B.4	Use previous understanding of factors to find the greatest common factor and the least common multiple. a. Find the greatest common factor of two whole numbers less than or equal to 100.

		b. Find the least common multiple of two whole numbers less than or equal to 12. c. Use the distributive property to express a sum of two whole numbers with no common factor. For example, express 36 + 8 as 4(9+2).
Ratio Relationships	6.RP.A.1	Understand the concept of a ratio language to describe a ratio relationship between two quantities. *For example*, "There were 2/3 as many men as women at the concert."
Unit Rates	6.RP.A.2	Understand the concept of a unit rate a/b associated with a ratio a : b with b ≠ 0, and use rate language (e.g., for every, for each, for each 1, per) in the context of a ratio relationship. ➢ Complex fraction notation is not an expectation for unit rates in this grade level.
Ratios and Rates to Solve Problems	6.RP.A.3	Use ratio and rate reasoning to solve mathematical problems and problems in real-world context (e.g., by reasoning about data, collected from measurements, tables of equivalent ratios, tape diagrams, double number line diagrams, or equations). a. Make tables of equivalent ratios relating quantities with whole-number measurements, find missing values in the tables, and plot the pairs of values on the coordinate plane. Use tables to compare ratios. b. Solve unit rate problems including those involving unit pricing and constant speed. c. Find a percent of a quantity as a rate per 100 (e.g., 30% of a quantity means 30/100 times the quantity). Solve percent problems with the unknown in all positions of the equation. d. Use ratio reasoning to convert measurement units; manipulate and transform units appropriately when multiplying or dividing quantities.
Multistep Division with Fractions	6.NS.A.1	Interpret and compute quotients of fractions to solve mathematical problems and problems in real-world context involving division of fractions by fractions using visual fraction models and equations to represent the problem.

		➢ For example, create a story for 2/3 ÷ 3/4 and use a visual fraction model to show the quotient; use the relationship between multiplication and division to explain that 2/3 ÷ 3/4 = 8/9 because 3/4 of 8/9 is 2/3. In general, a/b ÷ c/d = ad/bc.

SCIENCE		
Description	**Code**	**AZ State Standard**
Solar System/Ratios and Proportions	6.E2U1.7	Use ratios and proportions to analyze and interpret data related to scale, properties, and relationships among objects in our solar system.
Earth's Axis Model	6.E2U1.10	Use a model to show how the tilt of the Earth's axis causes variations in the length of the day and gives rise to seasons.
Sun/Earth/Moon System Models	6.E2U1.9	Develop and use models to construct an explanation of how eclipses, moon phases, and tides occur within the Sun-Earth-Moon system.
Earth's Rotation and Revolution Models	6.E2U1.8	Develop and use models to explain how constellations and other night sky patterns appear to move due to Earth's rotation and revolution.

WRITING		
Description	**Code**	**AZ State Standard**
Using Correct Grammar and Pronouns	6.L.01a-e	Demonstrate command of the conventions of Standard English grammar and usage when writing or speaking. A. Ensure that pronouns are in the proper case (subjective, objective, and possessive). B. Use intensive pronouns (e.g., myself, ourselves).

		C. Recognize and correct inappropriate shifts in pronoun number and person. D. Recognize and correct vague pronouns (i.e., ones with unclear or ambiguous antecedents). E. Recognize variations from Standard English in their own and others' writing and speaking, and identify and use strategies to improve expression in conventional language.
Capitalization, Punctuation, and Spelling	6.L.02	Demonstrate command of the conventions of Standard English capitalization, punctuation, and spelling when writing. A. Use punctuation (commas, parentheses, dashes) to set off nonrestrictive/parenthetical elements. B. Use correct spelling.
Using Language Effectively	6.L.03	Use knowledge of language and its conventions when writing, speaking, reading, or listening. A. Vary sentence patterns for meaning, reader/listener interest, and style. B. Maintain consistent style and tone.
Developing and Refining Writing Skills	6.W.05	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. (Editing for conventions should demonstrate command of Language standards 1–3 up to and including grade 6.)
Explaining Ideas Through Writing	6.W.02	Write informative/explanatory texts to examine a topic and convey ideas, concepts, and information through the selection, organization, and analysis of relevant content.

SOCIAL STUDIES		
Description	**Code**	**AZ State Standard**
Explain Relations Between Locations	**6.G1.1**	Use and construct maps, graphs, and other representations to explain relationships between locations of places and regions.
	6.G4.1	Explain why environmental characteristics vary among

		different world regions.
Analyze Cultural/Environmental Effects	**6.G3.2**	Analyze the influence of location, use of natural resources, catastrophic environmental events, and technological developments on human settlement and migration.
	6.SS.H1.01	
	6.SS.C4.01	
	6.SS.G2.01	
	6.SS.H3.03	
	6.SS.G3.01	

QUARTER 2

READING		
Description	**Code**	**AZ State Standard**
Story Elements	6.RL.3	Describe how a particular story's or drama's plot unfolds in a series of episodes as well as how the characters respond or

		change as the plot moves toward a resolution.
Theme	6.RL.2	Determine a theme or central idea of a text and how it is conveyed through particular details; provide a summary of the text distinct from personal opinions or judgments.
Cite Text Evidence	6.RL.1	Cite textual evidence to support analysis of what the text says explicitly as well as inferences drawn from the text.
Compare/Contrast Different Forms/Genres	6.RL.9	Compare and contrast texts in different forms or genres (e.g., stories and poems; historical novels and fantasy stories) in terms of their approaches to similar themes and topics.
Point of View Development	6.RL.6	Explain how an author develops the point of view of the narrator or speaker in a text.

MATH

Positive and Negative Integers 6.M.NS.C.05 (x days) Understand that positive and negative numbers are used together to describe quantities having opposite directions or values. Use positive and negative numbers to represent quantities in real-world contexts, explaining the meaning of 0 in each situation.

Absolute Values 6.M.NS.C.07 (x days) Understand ordering and absolute value of rational numbers

a. Interpret statements of inequality as statements about the relative position of two numbers on a number line.

b. Write, interpret, and explain statements of order for rational numbers in real-world context.

c. Understand the absolute value of a rational number is its distance from 0 on the number line; interpret absolute value as magnitude for a positive or negative quantity in a real-world context.

d. Distinguish comparisons of absolute value from statements about order in mathematical problems and problems in real-world context

Read, Write and Evaluate Algebraic Expressions 6.M.EE.A.02abc (x days) Write, read, and evaluate algebraic expressions.

a. Write expressions that record operations with numbers and variables.

b. Identify parts of an expression using mathematical terms (sum, term, product, factor, quotient, coefficient); view one or more parts of an expression as a single entity.

c. Evaluate expressions given specific values of their variables. Include expressions that arise from formulas used to solve mathematical problems and problems in real-world context. Perform arithmetic operations, including those involving whole-number exponents, in the conventional order when there are no parentheses to specify a particular order (Order of Operations).

Identify Equivalent Expressions 6.M.EE.A.04 (x days) Identify when two expressions are equivalent

For example, the expressions y+y+y and 3y are equivalent because they name the same number regardless of which number y stands for.

One Step Equations 6.M.EE.B.07 (x days) Solve mathematical problems and problems in real-world context by writing and solving equations in the form x+p=q, x-p=q, px=q, and x/p=q for cases in which p, q, and x are all non-negative rational numbers

Solve an Equation or Inequality 6.M.EE.B.05 (x days) Understand solving an equation or inequality as a process of reasoning to find the value(s) of the variables that make the equation or inequality true. Use substitution to determine whether a given number in a specified set makes an equation or inequality true.

Write an Inequality to Solve Problems 6.M.EE.B.08 (x days) Write an inequality of the form $x > c$, $x < x$, $x \geq c$, or $x \leq c$ to represent a constraint or condition to solve mathematical problems and problems in real-world context. Recognize that inequalities have infinitely many solutions: represent solutions of such inequalities on number lines.

SCIENCE

Kinetic Theory 6.P1U1.1 (35 days) I can analyze and interpret data to show that changes in states of matter are caused by different rates of movement of atoms in solids, liquids, and gases (Kinetic Theory).

Temperature and Pressure Investigations 6.P1U1.2 (35 days) I can plan and carry out an investigation to demonstrate that variations in temperature and/or pressure affect changes in state of matter.

Atom Models 6.P1U1.3 (35 days) I can develop and use models to represent that matter is made up of smaller particles called atoms.

WRITING

6.W.09 (10 days) The Highly Proficient student can draw evidence from literary or informational texts to support analysis, reflection, and research.

6.L.04 (10 days) The Highly Proficient student can definitively determine or clarify the meaning of unknown and multiple-meaning words and phrases, choosing from a range of strategies.
6.L.05 (20 days) The Highly proficient student can demonstrate command of figurative language, word relationships, and nuances in word meanings.

SOCIAL STUDIES

6.SS.C2.01 (5 days) I can analyze the beliefs, experiences, perspectives, and values that underlie points of view regarding civic issues in the time period and regions studied.
6.SS.C4.01 (5 days) I can explain challenges and opportunities people and groups face when solving local, regional, and/or global problems.
6.SS.E5.01 (5 days) I can describe the factors that influence trade between countries or cultures.
6.SS.H1.01 (5 days) I can compare the development and characteristics of historical cultures and civilizations from different global regions within designated time periods.
6.SS.E3.03 (5 days) I can analyze the influence of specialization and trade within diverse cultures and communities in regions studied.
6.SS.G1.01 (5 days) I can use and construct maps, graphs, and other representations to explain relationships between locations of places and regions.
6.SS.G2.01 (5 days) I can compare diverse ways people or groups of people have impacted, modified, or adapted to the environment of the Eastern Hemisphere.
6.SS.G3.02 (5 days) I can analyze the influence of location, use of natural resources, catastrophic environmental events, and technological developments on human settlement and migration.
6.SS.H3.03 (5 days) I can explain why communities, states, and nations have different motivations for their choices including individual rights, freedoms, and responsibilities.
6.SS.E1.01 (5 days) I can analyze the relationship between education, income, and job opportunities within the context of the time period and region studied.
6.SS.G3.01 (5 days) I can analyze how cultural and environmental characteristics affect the distribution and movement of people, goods, and ideas.
6.SS.G4.02 (5 days) I can describe how natural and human-made catastrophic events and economic activities in one place affect people living in nearby and distant places.
6.SS.H3.01 (5 days) I can analyze the impact of religious, government, and civic groups (different factions within a society) over time.

6.SS.H1.02 (5 days) I can explain the causes and effects of interactions between cultures and civilizations.
6.SS.H3.01 (5 days) I can analyze the impact of religious, government, and civic groups (different factions within a society) over time

QUARTER 3

READING

Integrate Information from Various Sources 6.R.RI.07 (10 days) The Highly Proficient student can evaluate and synthesize information presented in different media formats; visually, quantitatively, and in words to comprehend the topic or issue.
Author's Point of View or Purpose 6.R.RI.06 (10 days) The Highly Proficient student can analyze an author's point of view and purpose in a text and provide evidence to show how they are conveyed.
Arguments and Claims 6.R.RI.08 (10 days) The Highly Proficient student can trace and evaluate the argument and specific claims in a text; then analyze how the reasoning and evidence supports or does not support the claim.
Compare/Contrast Two Authors 6.R.RI.09 (10 days) The Highly Proficient student can compare and contrast one author's presentation of events with that of another author and evaluate the effect and impact of the different presentations.

MATH

Dependent and Independent Variables 6.M.EE.C.09 (5 days) The Highly Proficient student can create a real-world context using dependent and independent variables by constructing a table, graph, or equation.
Polygons and the Coordinate Plane 6.M.G.A.03 (5 days) The Highly Proficient student can find a missing vertex of a polygon given other vertices.
Graphing Points in all Four Quadrants 6.M.NS.C.08 (5 days) The Highly Proficient student can use absolute value to find the distance between two points with the same first or second coordinate in real-world context.
Ordered Pairs 6.M.NS.C.06b (5 days) The Highly Proficient student can recognize in real-world problems that when two ordered pairs differ only by sign then the locations are related to reflections over one or both axes.
Area of Regular and Irregular Polygons 6.M.G.A.01 (5 days) The Highly Proficient student can find the area of regular and irregular polygons by composing into rectangles or decomposing into triangles or other shapes

Surface Area for 3D Figures 6.M.G.A.04 (5 days) The Highly Proficient student can solve real world problems by finding surface area for three dimensional figures using nets with fractional edges.

Volume of Prisms 6.M.G.A.02 (5 days) The Highly Proficient student can find the volume of a right rectangular prism with fractional edge lengths using unit cubes and/or the traditional formula.

SCIENCE

Forces Model 6.P2U1.4 (15 days) I can develop and use a model to predict how forces act on objects at a distance.
Potential and Kinetic Energy 6.P4U2.5 (20 days) I can analyze how humans use technology to store (potential) and/or use (kinetic) energy.
Radiation Investigations and Explinations 6.E1U1.6 (15 days) I can investigate and construct an explanation demonstrating that radiation from the Sun provides energy and is absorbed to warm the Earth's surface and atmosphere.

WRITING

6.W.01 (40 days) The Highly Proficient student can write arguments to support claims with clear reasons and relevant evidence.
6.W.05 (35 days) The Highly Proficient student can produce clear and well-developed writing in which the development, organization, and style are appropriate to task, purpose, and audience.

SOCIAL STUDIES

6.SS.H1.02 (5 days) I can explain the causes and effects of interactions between cultures and civilizations.
6.SS.H2.01 (5 days) I can evaluate the causes and effects of conflict and resolution among different societies and cultures.

6.SS.H3.02 (5 days) I can generate questions to examine the similarities and differences between major world religions and the role of religion in the formation of regions and their cultural, political, economic, and social identity.
6.SS.C2.01 (5 days) I can analyze the beliefs, experiences, perspectives, and values that underlie points of view regarding civic issues in the time period and regions studied.
6.SS.C4.01 (5 days) I can explain challenges and opportunities people and groups face when solving local, regional, and/or global problems.
6.SS.E1.01 (5 days) I can analyze the relationship between education, income, and job opportunities within the context of the time period and region studied.
6.SS.G3.01 (5 days) I can analyze how cultural and environmental characteristics affect the distribution and movement of people, goods, and ideas.
6.SS.G4.02 (5 days) I can describe how natural and human-made catastrophic events and economic activities in one place affect people living in nearby and distant places.
6.SS.H1.01 (5 days) I can compare the development and characteristics of historical cultures and civilizations from different global regions within designated time periods.
6.SS.H1.02 (5 days) I can explain the causes and effects of interactions between cultures and civilizations.
6.SS.H2.01 (5 days) I can evaluate the causes and effects of conflict and resolution among different societies and cultures.

QUARTER 4

READING

Compare/Contrast Multimedia Experiences 6.R.RL.07 (10 days) The Highly Proficient student can compare and contrast and analyze the experiences of reading a story, drama, poem, to listening to or viewing an audio, video, or live version of the text.

Math

Statistical Questions 6.M.SP.A.01 (5 days) The Highly Proficient student can create a statistical question given a context and develop a data set with a given measure of center, spread, and overall shape, and determine how additional data points impact these measures.
Interpret Numerical Data 6.M.SP.B.04 (5 days) The Highly Proficient student can interpret numerical data by creating a histogram, box plot, and/or dot plot.

Summarize Numerical Data Sets 6.M.SP.B.05 (5 days) The Highly Proficient student can summarize numerical data sets in relation to their context by finding measures of center, variability, and overall patterns.

SCIENCE

Interdependence of Organisms Models 6.L2U1.13 (40 days) I can develop and use models to demonstrate the interdependence of organisms and their environment including biotic and abiotic factors.

Cycling of Matter/Energy Flow Models 6.L2U1.14 (40 days) I can construct a model that shows the cycling of matter and flow of energy in ecosystems.

Impact of Human Activities 6.L2U3.11 (40 days) I can use evidence to construct an argument regarding the impact of human activities on the environment and how they positively and negatively affect the competition for energy and resources in ecosystems.

Factors that Cause Species to Change 6.L2U3.12 (40 days) I can engage in an argument from evidence to support a claim about the factors that cause species to change and how humans can impact those factors.

WRITING

6.W.03 (15 days) The Highly Proficient student can produce a clear and well-developed narrative that develops real or imagined experiences or events using effective techniques, relevant descriptive details, and well-structured event sequences.

6.W.06 (15 days) The Highly Proficient student can produce clear and well-developed writing in which the development, organization, and style are appropriate to the task, purpose, and audience; develops and strengthens writing on an ongoing basis by planning, revising, editing, rewriting, and editing for conventions; demonstrates the ability to complete a writing task in a single sitting with adequate keyboarding skills.

6.W.05 (15 days) The Highly Proficient student can produce clear and well-developed writing in which the development, organization, and style are appropriate to the task, purpose, and audience.

6.W.08 (15 days) The Highly Proficient student can gather relevant information by conducting research, drawing on several high-quality, credible sources, using standard citation format, and avoiding plagiarism.

SOCIAL STUDIES

6.SS.G1.01 (5 days) I can use and construct maps, graphs, and other representations to explain relationships between locations of places and regions.
6.SS.G3.02 (5 days) I can analyze the influence of location, use of natural resources, catastrophic environmental events, and technological developments on human settlement and migration.
6.SS.H3.03 (5 days) I can explain why communities, states, and nations have different motivations for their choices including individual rights, freedoms, and responsibilities.
6.SS.C2.01 (5 days) I can analyze the beliefs, experiences, perspectives, and values that underlie points of view regarding civic issues in the time period and regions studied.
6.SS.C2.01 (5 days) I can analyze the beliefs, experiences, perspectives, and values that underlie points of view regarding civic issues in the time period and regions studied.
6.SS.C4.01 (5 days) I can explain challenges and opportunities people and groups face when solving local, regional, and/or global problems.
6.SS.E1.01 (5 days) I can analyze the relationship between education, income, and job opportunities within the context of the time period and region studied.
6.SS.G3.01 (5 days) I can analyze how cultural and environmental characteristics affect the distribution and movement of people, goods, and ideas.
6.SS.G4.02 (5 days) I can describe how natural and human-made catastrophic events and economic activities in one place affect people living in nearby and distant places.
6.SS.H1.01 (5 days) I can compare the development and characteristics of historical cultures and civilizations from different global regions within designated time periods.
6.SS.H2.01 (5 days) I can evaluate the causes and effects of conflict and resolution among different societies and cultures.
6.SS.G1.01 (5 days) I can use and construct maps, graphs, and other representations to explain relationships between locations of places and regions.
6.SS.H3.03 (5 days) I can explain why communities, states, and nations have different motivations for their choices including individual rights, freedoms, and responsibilities.

YEARLY/ADDITIONAL

MATH

6.M.NS.B.02: Fluently divide multi-digit numbers using the standard algorithm.
6.M.EE.A.03: Apply the properties of operations to generate equivalent expressions. For example, apply the distributive property to the expression 3 (2 + x) to produce the equivalent expression 6 + 3x.

6.M.EE.A.01: Write and evaluate numerical expressions involving whole number exponents.
6.M.EE.B.06: Use variables to represent numbers and write expressions when solving mathematical problems and problems in real-world context; understand that a variable can represent an unknown number or any number in a specified set.

6.M.NS.C.06ac: Understand a rational number as a point on the number line. Extend number line diagrams and coordinate axes familiar from previous grades to represent points on the line and in the plane with negative number coordinates. a. Recognize opposite signs of numbers as indicating locations on opposite sides of 0 on the number line; recognize that the opposite of the opposite of a number is the number itself and that 0 is its own opposite. c. Find and position integers and other rational numbers on a horizontal or vertical number line diagram; find and position pairs of integers and other rational numbers on a coordinate plane.

READING

6.R.RL.10: By the end of the year, proficiently and independently read and comprehend literature, including stories, dramas, and poetry, in a text complexity range determined by qualitative and quantitative measures appropriate to grade 6.

6.R.RI.10: By the end of the year, proficiently and independently read and comprehend informational text and nonfiction in a text complexity range determined by qualitative and quantitative measures appropriate to grade 6.

6.R.RL.05: Analyze how a particular sentence, chapter, scene, or stanza fits into the overall structure of a text and contributes to the development of the theme, setting, or plot.

6.R.RL.04: 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.

WRITING

6.L.06: Acquire and use accurately grade-appropriate general academic and domain-specific words and phrases; gather vocabulary knowledge when considering a word or phrase important to comprehension or expression.

6.W.10: 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.

SOCIAL STUDIES

6.SS.G4.01: Explain why environmental characteristics vary among different world regions. Key concepts include but are not limited to latitude, elevation, landforms, location, and human factors.

6.SS.H4.01: Describe how different group identities such as racial, ethnic, class, gender, regional, and immigrant/migration status emerged and contributed to societal and regional development, characteristics, and interactions over time.

6.SS.E5.02: Explain the effects of increasing economic interdependence within distinct groups.

6.SS.C4.02: Describe and apply civic virtues including deliberative processes that contribute to the common good and democratic principles in school, community, and government. Key concepts include but are not limited to civility, respect for the rights of others, individual responsibility, respect for law, open-mindedness, critical examination of issues, negotiation and compromise, civic-mindedness, compassion, patriotism, conciliation, and consensus building.

6.SS.E1.02: Give examples of financial risks that individuals and households face within the context of the time period and region studied.

6.SS.E3.02: Explain the influence the factors of production have on the manufacture of goods and services within different cultures, regions, and communities.

6.SS.E3.01: Describe the relationship between various costs and benefits of economic production.