WQED SOS – PA Standards

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7th-8th Grade PA Standards

English Language Arts	Social Studies	Science	Math
CC.1.2.7.A Determine two or more central ideas in a text and analyze their development over the course of the text; provide an objective summary of the text. E07.B-K.1.1.1 Cite several pieces of textual evidence to support analysis of what the text says explicitly as well as inferences, conclusions, and/or generalizations drawn from the text. E07.B-K.1.1.2 Determine two or more central ideas in a text and analyze their development over the course of the text; provide an objective summary of the text. CC.1.2.7.B Cite several pieces of textual evidence to support analysis of what the text says explicitly as well as inferences, conclusions, and/or generalizations drawn from the text. CC.1.2.7.C Analyze the interactions between individuals, events, and ideas in a text. CC.1.2.7.D Determine an author's point of view or purpose in a text and analyze how the author distinguishes his or her position from that of others. E07.B-C.2.1 Demonstrate understanding of craft and structure in informational texts. CC.1.2.7.F Determine the meaning of words and phrases as they are used in grade-level reading and content, including interpretation of figurative, connotative, and technical meanings. CC.1.2.7.G Compare and contrast a text to an audio, video, or multimedia version of the text, analyzing each medium's portrayal of the subject (e.g. how the delivery of a speech affects the impact of the words). CC.1.2.7.H Evaluate an author's argument, reasoning, and specific claims for the soundness of the argument and the relevance of the evidence. CC.1.2.7.J 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. CC.1.2.7.L Read and comprehend literary non-fiction and informational text on grade level, reading independently and proficiently.	5.1.7.A Cite functional examples of how the rule of law protects property rights, individual rights, and the common good. 5.1.7.C Explain how the principles and ideals shape local, state, and national government. Liberty / Freedom Democracy Justice Equality 5.1.7.D Summarize the basic principles and ideals within documents and the roles played by the framers as found in significant documents: Declaration of Independence United States Constitution Bill of Rights Pennsylvania Constitution 6.1.7.A Explain how limited resources and unlimited wants cause scarcity. 6.1.7.B Compare decisions made because of limited resources and unlimited wants. Describe how resources are combined to produce different goods and services. 6.1.7.D Explain how positive and negative incentives affect behavior. 6.3.7.B Describe the impact of government involvement in state and national economic activities. 7.1.7.A Explain how common geographic tools are used to organize and interpret information about people, places, and environment. 7.1.7.B Explain and locate places and regions as defined by physical and human features. 7.3.7.A Describe the human characteristics of places and regions using the following criteria: Population Culture Settlement Economic activities	3.1.7.A1 Describe the similarities and differences of physical characteristics in diverse organisms. S7.A.1.1 Explain, interpret, and apply scientific, environmental, or technological knowledge presented in a variety of formats (visuals, scenarios, graphs). S7.A.1.1.1 Distinguish between a scientific theory and a general opinion, explaining how a theory is supported with evidence. S7.A.1.1.4 Use evidence to develop descriptions, explanations, and models. S7.A.1.2 Identify and explain the impacts of applying scientific, environmental, or technological knowledge to address solutions to practical problems. S7.A.2.1 Apply knowledge of scientific investigation or technological design in different contexts to make inferences, solve problems, and/or answer questions. S7.A.2.1.1 Use evidence from investigations to clearly describe relationships and communicate and support conclusions. S7.A.2.2.3 Describe ways technology is used to enhance scientific study and/or human life. S7.A.3.1 Explain the parts of a simple system, their roles, and their relationships to the system as a whole. S7.A.3.1.1 Describe a system (e.g., ecosystem, circulatory system, agricultural system) as a group of related parts with specific roles that work together to achieve an observed result. S7.A.3.1.4 Identify examples of open- and closedlooped systems. S7.A.3.2 Apply knowledge of models to make predictions, draw inferences, or explain technological concepts. S7.B.1.1 Describe and compare structural and functional similarities and differences that characterize diverse living things. S7.B.1.1.2 Describe how specific structures in living things (from cell to organism) help them function effectively in specific ways (e.g., chlorophyll in plant cells— photosynthesis; root hairs—increased surface area; beak structures in birds— food gathering; cacti spines—protection from predators). S7.C.2.1.1 Describe how energy is obtained and used by organisms throughout their lives. S7.A.2.1.1 Use evidence from investigations to clearly describe relationships and communicate and support conclusions.	CC.2.1.7.D.1 Analyze proportional relationships and use them to model and solve real-world and mathematical problems. CC.2.2.7.B.1 Apply properties of operations to generate equivalent expressions. CC.2.2.7.B.3 Model and solve real-world and mathematical problems by using and connecting numerical, algebraic, and/or graphical representations. CC.2.3.7.A.1 Solve real-world and mathematical problems involving angle measure, area, surface area, circumference, and volume. M07.C-G.1.1.1 Solve problems involving scale drawings of geometric figures, including finding length and area. M07.C-G.2.1 Identify, use, and describe properties of angles and their measures. M07.C-G.2.2 Determine circumference, area, surface area, and volume. M07.C-G.2.2.1 Find the area and circumference of a circle. Solve problems involving area and circumference of a circle(s). Formulas will be provided. M07.C-G.2.2.2 Solve real-world and mathematical problems involving area, volume, and surface area of twoand three-dimensional objects composed of triangles, quadrilaterals, polygons, cubes, and right prisms. Formulas will be provided. M07.B-E.2 Solve real-world and mathematical problems using numerical and algebraic expressions, equations, and inequalities. M07.B-E.2.1.1 Apply properties of operations to calculate with numbers in any form; convert between forms as appropriate M07.B-E.2.2.1 Solve word problems leading to equations of the form $px + q = r$ and $p(x + q) = r$, where p, q, and r are specific rational numbers. M07.B-E.2.2 Use variables to represent quantities in a real-world or mathematical problem and construct simple equations and inequalities to solve problems. M07.A-N.1.1 Solve real-world and mathematical problems involving the four operations with rational numbers.

CC.1.3.7.A Determine a theme or central idea of a text and analyze its development over the course of the text; provide an objective summary of the text. CC.1.3.7.B Cite several pieces of textual evidence to support analysis of what the text says explicitly as well as inferences, conclusions, and/or generalizations drawn from the text. CC.1.3.7.E Analyze how the structure or form of a text contributes to its meaning. CC.1.3.7.F Determine the meaning of words and phrases as they are used in grade-level reading and content, including interpretation of figurative, connotative meanings. CC.1.4.7.A Write informative/ explanatory texts to examine a topic and convey ideas, concepts, and information clearly. CC.1.4.7.B Identify and introduce the topic clearly, including a preview of what is to follow. CC.1.4.7.D Organize ideas, concepts, and information using strategies such as definition, classification, comparison/contrast, and cause/effect; use appropriate transitions to create cohesion and clarify the relationships among ideas and concepts; provide a concluding statement or section; include formatting when useful to aiding comprehension. CC.1.4.7.E Write with an awareness of the stylistic aspects of composition. • Use precise language and domain-specific vocabulary to inform about or explain the topic. • Use sentences of varying lengths and complexities • Develop and maintain a consistent voice. • Establish and maintain a formal style. CC.1.4.7.F Demonstrate a grade-appropriate command of the conventions of standard English grammar, usage, capitalization, punctuation, and spelling. CC.1.4.7.G Write arguments to support claims. CC.1.4.7.H Introduce and state an opinion on a topic. CC.1.4.7.J Organize the claim(s) with clear reasons and evidence clearly; clarify relationships among claim(s) and reasons by using words, phrases, and clauses to create cohesion; provide a concluding statement or section that follows from and supports the argument presented. CC.1.4.7.V Conduct short research projects to answer a question, drawing on several sources and generating additional related, focused questions for further research and investigation. CC.1.4.7.X Write routinely over extended time frames (time for research, reflection, and	Political activities 7.4.7.A Describe and explain the effects of the physical systems on people within regions. 7.4.7.B Describe and explain the effects of people on the physical systems within regions. 8.1.7.A Demonstrate continuity and change over time using sequential order and context of events. 8.1.7.B Identify and use primary and secondary sources to analyze multiple points of view for historical events. 8.3.7.B Examine the importance of significant historical documents, artifacts, and places critical to United States history.	3.1.7.A9 Understand how theories are developed. Identify questions that can be answered through scientific investigations and evaluate the appropriateness of questions. Design and conduct a scientific investigation and understand that current scientific knowledge guides scientific investigations. Describe relationships using inference and prediction. Use appropriate tools and technologies to gather, analyze, and interpret data and understand that it enhances accuracy and allows scientists to analyze and quantify results of investigations. Develop descriptions, explanations, and models using evidence and understand that these emphasize evidence, have logically consistent arguments, and are based on scientific principles, models, and theories. Analyze alternative explanations and understanding that science advances through legitimate skepticism. Use mathematics in all aspects of scientific inquiry. Understand that scientific investigations may result in new ideas for study, new methods, or procedures for an investigation or new technologies to improve data collection. 3.3.7.B1 Explain how gravity is the major force in the formation of the planets, stars, and the solar system. Describe gravity as a major force in determining the motions of planets, stars, and the solar system. Compare and contrast properties and conditions of objects in the solar system to those on Earth. 3.4.7.A1 Explain how technology is closely linked to creativity, which has resulted in innovation and invention. 3.4.7.B1 Explain how the use of technology can have consequences that affect humans in many ways. 3.4.7.B2 Explain how decisions to develop and use technologies may be influenced by environmental and economic concerns. 3.4.7.B3 Describe how invention and innovation lead to changes in society and the creation of new needs and wants.	M07.A-N.1.1.3 Apply properties of operations to multiply and divide rational numbers, including real-world contexts; demonstrate that the decimal form of a rational number terminates or eventually repeats. M07.A-R.1.1.1 Compute unit rates associated with ratios of fractions, including ratios of lengths, areas, and other quantities measured in like or different units. M07.A-R.1.1.2 Determine whether two quantities are proportionally related (e.g., by testing for equivalent ratios in a table, graphing on a coordinate plane and observing whether the graph is a straight line through the origin). M07.A-R.1.1.3 Identify the constant of proportionality (unit rate) in tables, graphs, equations, diagrams, and verbal descriptions of proportional relationships. M07.A-R.1.1.5 Explain what a point (x, y) on the graph of a proportional relationship means in terms of the situation, with special attention to the points (0, 0) and (1, r), where r is the unit rate.

revision) and shorter time frames (a single sitting or a day or two) for a range of discipline-specific tasks, purposes and audiences. CC.1.5.7.C Analyze the main ideas and supporting details presented in diverse media formats (e.g. visually, quantitatively, orally) and explain how the ideas clarify a topic, text, or issue under study.			