

PENNSYLVANIA ACADEMIC STANDARDS
Correlated with American Career for Kids
The page numbers listed refer to pages in the Student ACK!tivity Book.

READING, WRITING, SPEAKING AND LISTENING--Grade 5	
<p>1.1. Learning to Read Independently</p> <p>Pennsylvania’s public schools shall teach, challenge and support every student to realize his or her maximum potential and to acquire the knowledge and skills needed to:</p> <p>A. Establish the purpose for reading a type of text (literature, information) before reading.</p> <p>Pages 12, 13, 20-21, 28, 29, 31, 46, 49, 50-51, 56, 59.</p> <p>B. Select texts for a particular purpose using the format of the text as a guide.</p> <p>Pages 12, 13, 20-21, 28, 29, 31, 46, 49, 50-51, 56, 59.</p> <p>D. Identify the basic ideas and facts in text using strategies (e.g., prior knowledge, illustrations and headings) and information from other sources to make predictions about text.</p> <p>Pages 12, 13, 20-21, 28, 29, 31, 46, 49, 50-51, 56, 59.</p> <p>F. Identify, understand the meaning of and use correctly key vocabulary from various subject areas.</p> <p>Pages 5-6, 10-11, 12, 13, 20-21, 26, 27, 28, 29, 31, 44, 45, 46, 49, 50-51, 54, 56, 60.</p> <p>G. Demonstrate after reading understanding and interpretation of both fiction and nonfiction text.</p> <p>· Summarize the major ideas, themes or procedures of the text.</p> <p>Pages 12, 16, 20-21, 28, 29, 46, 49, 50-51, 56.</p>	<p>· Clarify ideas and understandings through rereading and discussion.</p> <p>Pages 12, 13, 20-21, 28, 29, 31, 43, 44, 46, 49, 50-51, 54, 55, 56, 59.</p> <p>· Extend ideas found in the text.</p> <p>Pages 12, 13, 16, 20-21, 28, 29, 31, 37, 46, 49, 56, 59.</p> <p>H. Demonstrate fluency and comprehension in reading.</p> <p>· Read a variety of genres and types of text.</p> <p>Pages 12, 13, 16, 20-21, 28, 29, 31, 46, 49, 50-51, 56, 59.</p> <p>· Demonstrate comprehension</p> <p>Pages 5-6, 12, 13, 16, 20-21, 28, 29, 31, 37, 46, 49, 50-51, 56, 59.</p> <p>1.2. Reading Critically in All Content Areas</p> <p>Pennsylvania’s public schools shall teach, challenge and support every student to realize his or her maximum potential and to acquire the knowledge and skills needed to:</p> <p>A. Read and understand essential content of informational texts and documents in all academic areas.</p> <p>· Differentiate fact from opinion across texts.</p> <p>Page 8</p> <p>· Distinguish between essential and nonessential information across a variety of texts, identifying stereotypes and</p>

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<p>exaggeration where present.</p> <p>Pages 29, 37, 49, 56, 59, 60.</p> <ul style="list-style-type: none"> · Make inferences about similar concepts in multiple texts and draw conclusions. <p>Pages 12, 13, 20-21, 28, 29, 31, 46, 49, 56, 59.</p> <p>B. Use and understand a variety of media and evaluate the quality of material produced.</p> <ul style="list-style-type: none"> · Use a variety of media (e.g., computerized card catalogues, encyclopedias) for research. <p>Pages 12, 13, 20-21, 28, 29, 31, 46, 49, 50-51, 56, 59.</p> <p>C. Produce work in at least one literary genre that follows the conventions of the genre.</p> <p>Pages 5-6, 16, 28, 29, 34.</p> <p>1.3. Reading, Analyzing and Interpreting Literature</p> <p>Pennsylvania's public schools shall teach, challenge and support every student to realize his or her maximum potential and to acquire the knowledge and skills needed to:</p> <p>A. Read and understand works of literature.</p> <p>Page 49.</p> <p>F. Read and respond to nonfiction and fiction including poetry and drama.</p> <p>Pages 29, 49.</p>	<p>1.4. Types of Writing</p> <p>Pennsylvania's public schools shall teach, challenge and support every student to realize his or her maximum potential and to acquire the knowledge and skills needed to:</p> <p>A. Write poems, plays and multi-paragraph stories.</p> <ul style="list-style-type: none"> · Include detailed descriptions of people, places and things. <p>Pages 5-6, 34, 59, Performance Assessment.</p> <ul style="list-style-type: none"> · Use relevant illustrations. <p>Pages 5-6, 34, 59, Performance Assessment.</p> <p>B. Write multi-paragraph informational pieces (e.g., essays, descriptions, letters, reports, instructions).</p> <ul style="list-style-type: none"> · Include cause and effect. <p>Pages 5-6, 59, Performance Assessment.</p> <ul style="list-style-type: none"> · Develop a problem and solution when appropriate to the topic. <p>Pages 59, Performance Assessment.</p> <p>C. Write persuasive pieces with a clearly stated position or opinion and supporting detail, citing sources when needed.</p> <ul style="list-style-type: none"> · Note: The following assignments are not multi-paragraph as printed, but could easily be extended to fulfill this objective. <p>Pages 16, 38, 42, 49.</p>

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<p>1.5. Quality of Writing</p> <p>Pennsylvania's public schools shall teach, challenge and support every student to realize his or her maximum potential and to acquire the knowledge and skills needed to:</p> <p>A. Write with a sharp, distinct focus identifying topic, task and audience.</p> <p>Pages 5-6, 16, 20-21, 22, 28, 29, 32-33, 34, 37, 38, 39-41, 42, 49, 59, Performance Assessment.</p> <p>B. Write using well-developed content appropriate for the topic.</p> <ul style="list-style-type: none"> · Gather, organize and select the most effective information appropriate for the topic, task and audience. <p>Pages 5-6, 16, 20-21, 28, 29, 47-48, 50-51, 56, 59, Performance Assessment.</p> <ul style="list-style-type: none"> · Write paragraphs that have a topic sentence and supporting details. <p>Pages 5-6, 16, 28, 29, 42, 49, 59, Performance Assessment.</p> <p>C. Write with controlled and/or subtle organization.</p> <ul style="list-style-type: none"> · Sustain a logical order within sentences and between paragraphs using meaningful transitions. <p>Pages 5-6, 59, Performance Assessment.</p> <p>D. Write with an understanding of the stylistic aspects of composition.</p>	<ul style="list-style-type: none"> · Use different types and lengths of sentences. <p>Pages 5-6, 16, 20-21, 22, 28, 29, 32-33, 34, 37, 38, 39-41, 42, 49, 59, Performance Assessment.</p> <ul style="list-style-type: none"> · Develop and maintain a consistent voice. <p>Pages 5-6, 16, 20-21, 22, 28, 29, 32-33, 34, 37, 38, 39-41, 42, 49, 59, Performance Assessment.</p> <p>E. Revise writing to improve organization and word choice; check the logic, order of ideas and precision of vocabulary.</p> <p>Pages 5-6, 16, 28, 29, 34, 42.</p> <p>F. Edit writing using the conventions of language.</p> <ul style="list-style-type: none"> · Spell common, frequently used words correctly. <p>Pages 5-6, 16, 20-21, 22, 28, 29, 32-33, 34, 37, 38, 39-41, 42, 49, 59, Performance Assessment.</p> <ul style="list-style-type: none"> · Use capital letters correctly. <p>Pages 5-6, 16, 20-21, 22, 28, 29, 32-33, 34, 37, 38, 39-41, 42, 49, 59, Performance Assessment.</p> <ul style="list-style-type: none"> · Punctuate correctly (periods, exclamation points, question marks, commas, quotation marks, apostrophes). <p>Pages 5-6, 16, 20-21, 22, 28, 29, 32-33, 34, 37, 38, 39-41, 42, 49, 59, Performance Assessment.</p> <ul style="list-style-type: none"> · Use nouns, pronouns, verbs, adjectives, adverbs, conjunctions, prepositions and interjections properly.

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<p>Pages 5-6, 16, 20-21, 22, 28, 29, 32-33, 34, 37, 38, 39-41, 42, 49, 59, Performance Assessment.</p> <ul style="list-style-type: none"> · Use complete sentences (simple, compound, declarative, interrogative, exclamatory and imperative). <p>Pages 5-6, 16, 20-21, 22, 28, 29, 32-33, 34, 37, 38, 39-41, 42, 49, 59, Performance Assessment.</p> <p>G. Present and/or defend written work for publication when appropriate.</p> <p>Pages 5-6, 16, 29, 42, 49, 56, Performance Assessment.</p> <p>1.6. Speaking and Listening</p> <p>Pennsylvania's public schools shall teach, challenge and support every student to realize his or her maximum potential and to acquire the knowledge and skills needed to:</p> <p>A. Listen to others.</p> <ul style="list-style-type: none"> · Ask pertinent questions. <p>Pages 14-15, 18-19, 23-24, 27, 32-33, 37, 39-41, 42, 43, 44, 45, 52, 56, 57-58, 60.</p> <ul style="list-style-type: none"> · Distinguish relevant information, ideas and opinions from those that are irrelevant. <p>Pages 14-15, 18-19, 23-24, 27, 32-33, 37, 39-41, 42, 44, 49, 56.</p> <ul style="list-style-type: none"> · Take notes when prompted. <p>Pages 39-41, 44, 56.</p>	<p>C. Speak using skills appropriate to formal speech situations.</p> <ul style="list-style-type: none"> · Use complete sentences. <p>Pages 14-15, 23-24, 29.</p> <ul style="list-style-type: none"> · Pronounce words correctly. <p>Pages 14-15, 23-24, 29.</p> <ul style="list-style-type: none"> · Use appropriate volume. <p>Pages 14-15, 23-24, 29.</p> <ul style="list-style-type: none"> · Pace speech so that it is understandable. <p>Pages 14-15, 23-24, 29.</p> <ul style="list-style-type: none"> · Adjust content for different audiences (e.g., fellow classmates, parents). <p>Pages 14-15, 23-24, 29.</p> <ul style="list-style-type: none"> · Speak with a purpose in mind. <p>Pages 14-15, 23-24, 29.</p> <p>D. Contribute to discussions.</p> <ul style="list-style-type: none"> · Ask relevant questions. <p>Pages 8, 18-19, 20-21, 27, 31, 32-33, 37, 39-41, 42, 43, 44, 46, 52, 56, 57-58, 60.</p> <ul style="list-style-type: none"> · Respond with relevant information or opinions to

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<p>questions asked.</p> <p>Pages 8, 18-19, 20-21, 27, 32-33, 37, 39-41, 44, 57-58, 60.</p> <ul style="list-style-type: none"> · Listen to and acknowledge the contributions of others. <p>Pages 8, 18-19, 20-21, 27, 31, 32-33, 37, 39-41, 42, 43, 44, 46, 52, 56, 57-58, 60.</p> <ul style="list-style-type: none"> · Adjust involvement to encourage equitable participation. <p>Pages 8, 18-19, 20-21, 27, 31, 32-33, 37, 39-41, 42, 43, 44, 46, 52, 56, 57-58, 60.</p> <ul style="list-style-type: none"> · Give reasons for opinions. <p>Pages 8, 18-19, 20-21, 27, 32-33, 37, 39-41, 44, 57-58, 60.</p> <ul style="list-style-type: none"> · Summarize, when prompted. <p>Pages 18-19, 20-21, 39-41, 44.</p> <p>E. Participate in small and large group discussions and presentations.</p> <p>Pages 8, 18-19, 20-21, 27, 32-33, 37, 39-41, 43, 44, 45, 52, 56-58, 60.</p> <ul style="list-style-type: none"> · Participate in everyday conversation. <p>Pages 1-4, 14-15, 18-19, 20-21, 23-24, 27, 32-33, 37, 39-41, 44, 49, 52, 57-58, 60.</p> <ul style="list-style-type: none"> · Deliver research reports. <p>Page 29.</p>	<p>F. Use media for learning purposes.</p> <ul style="list-style-type: none"> · Access information on Internet. <p>Pages 12, 13, 20-21, 28, 29, 31, 43, 46, 49, 50-51, 56, 59.</p> <ul style="list-style-type: none"> · Discuss the reliability of information received on Internet sources. <p>Pages 12, 13, 20-21, 28, 29, 31, 43, 46, 49, 50-51, 56, 59.</p> <ul style="list-style-type: none"> · Use a variety of images and sounds to create an effective presentation on a topic. <p>Pages 12, 13, 28, 29, 49, 50-51.</p> <p>1.8. Research</p> <p>Pennsylvania's public schools shall teach, challenge and support every student to realize his or her maximum potential and to acquire the knowledge and skills needed to:</p> <p>A. Select and refine a topic for research.</p> <p>Pages 20-21, 28, 29, 42, 49, 50-51, 56, 59.</p> <p>B. Locate information using appropriate sources and strategies.</p> <ul style="list-style-type: none"> · Evaluate the usefulness and qualities of the sources. <p>Pages 12, 13, 20-21, 28, 29, 31, 46, 49, 50-51, 54, 56, 59.</p> <ul style="list-style-type: none"> · Select appropriate sources (e.g., dictionaries, encyclopedias, other reference materials, interviews, observations, computer databases).

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READING, WRITING, SPEAKING AND LISTENING--Grade 5 (cont'd)	MATHEMATICS--Grade 5
<p>Pages 12, 13, 20-21, 25, 28, 29, 31, 42, 46, 49, 50-51, 54, 56, 59.</p> <ul style="list-style-type: none"> · Use tables of contents, indices, key words, cross-references and appendices. <p>Pages 12, 13, 25, 28, 29, 31, 46, 49, 50-51.</p> <ul style="list-style-type: none"> · Use traditional and electronic search tools. <p>Pages 12, 13, 20-21, 28, 29, 31, 46, 49, 50-51, 54, 56, 59.</p> <p>C. Organize and present the main ideas from research.</p> <ul style="list-style-type: none"> · Present the topic using relevant information. <p>Pages 28, 29, 49, 56.</p>	<p>2.1. Numbers, Number Systems and Number Relationships</p> <p>Pennsylvania's public schools shall teach, challenge and support every student to realize his or her maximum potential and to acquire the knowledge and skills needed to:</p> <p>C. Demonstrate that mathematical operations can represent a variety of problem situations.</p> <p>Pages 17, 18-19, 26, 27, 43, 52, 53, 56, 60.</p> <p>D. Use models to represent fractions and decimals.</p> <p>Pages 39-41, 52.</p> <p>G. Develop and apply number theory concepts (e.g., primes, factors, multiples, composites) to represent numbers in various ways.</p> <p>Pages 17, 26, 43, 52, 53, 56.</p> <p>2.2. Computation and Estimation</p> <p>Pennsylvania's public schools shall teach, challenge and support every student to realize his or her maximum potential and to acquire the knowledge and skills needed to:</p> <p>A. Create and solve word problems involving addition, subtraction, multiplication and division of whole numbers.</p> <p>Pages 17, 26, 27, 43, 52, 53, 56, 60.</p> <p>B. Develop and apply algorithms to solve word problems that involve addition, subtraction, and/or multiplication with decimals with and without regrouping.</p>

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<p>MATHEMATICS--Grade 5 <i>(continued)</i></p> <p>Pages 17, 56.</p> <p>C. Develop and apply algorithms to solve word problems that involve addition, subtraction, and/or multiplication with fractions and mixed numbers that include like and unlike denominators.</p> <p>Page 52.</p> <p>D. Demonstrate the ability to round numbers.</p> <p>Page 43.</p> <p>E. Determine through estimations the reasonableness of answers to problems involving addition, subtraction, multiplication and division of whole numbers.</p> <p>Pages 17, 26, 43, 53, 56.</p> <p>2.3. Measurement and Estimation</p> <p>Pennsylvania's public schools shall teach, challenge and support every student to realize his or her maximum potential and to acquire the knowledge and skills to:</p> <p>A. Select and use appropriate instruments and units for measuring quantities (e.g., perimeter, volume, area, weight, time, temperature).</p> <p>Pages 18-19, 26, 36, 52.</p> <p>B. Select and use standard tools to measure the size of figures with specified accuracy, including length, width, perimeter and area.</p> <p>Pages 9, 10-11, 12, 13, 27, 28, 42, 43, 44.</p>	<p>C. Estimate, refine and verify specified measurements of objects.</p> <p>Pages 13, 27, 28, 36, 42, 44, 52.</p> <p>2.4. Mathematical Reasoning and Connections</p> <p>Pennsylvania's public schools shall teach, challenge and support every student to realize his or her maximum potential and to acquire the knowledge and skills to:</p> <p>A. Compare quantities and magnitudes of numbers.</p> <p>Pages 26, 27, 35, 36, 52, 56, 60.</p> <p>B. Use models, number facts, properties and relationships to check and verify predictions and explain reasoning.</p> <p>Pages 18-19, 35, 36, 43.</p> <p>C. Draw inductive and deductive conclusions within mathematical contexts.</p> <p>Pages 17, 18-19, 20-21, 26, 27, 35, 36, 43, 46, 52, 53, 56.</p> <p>2.5. Mathematical Problem Solving and Communication</p> <p>Pennsylvania's public schools shall teach, challenge and support every student to realize his or her maximum potential and to acquire the knowledge and skills to:</p> <p>A. Develop a plan to analyze a problem, identify the information needed to solve the problem, carry out the plan, check whether an answer makes sense and explain how the problem was solved.</p>
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<p>MATHEMATICS--Grade 5 <i>(continued)</i></p> <p>Pages 43, 56.</p> <p>B. Use appropriate mathematical terms, vocabulary, language symbols and graphs to explain clearly and logically solutions to problems.</p> <p>Pages 17, 18-19, 20-21, 26, 27, 35, 36, 43, 44, 52, 53, 54, 56.</p> <p>C. Show ideas in a variety of ways, including words, numbers, symbols, pictures, charts, graphs, tables, diagrams and models.</p> <p>Pages 9, 10-11, 12, 13, 17, 18-19, 26, 27, 35, 36, 42, 43, 44, 45, 46, 52, 53, 54, 56.</p> <p>E. Select, use and justify the methods, materials and strategies used to solve problems.</p> <p>Pages 43, 44, 56.</p> <p>2.6. Statistics and Data Analysis</p> <p>Pennsylvania's public schools shall teach, challenge and support every student to realize his or her maximum potential and to acquire the knowledge and skills to:</p> <p>A. Organize and display data using pictures, tallies, tables, charts, bar graphs and circle graphs.</p> <p>Pages 26, 27, 46, 54, 56.</p> <p>C. Sort data using Venn diagrams.</p> <p>Page 31.</p>	<p>2.8. Algebra and Functions</p> <p>Pennsylvania's public schools shall teach, challenge and support every student to realize his or her maximum potential and to acquire the knowledge and skills to:</p> <p>A. Recognize, reproduce, extend, create and describe patterns, sequences and relationships verbally, numerically, symbolically and graphically, using a variety of materials.</p> <p>Pages 17, 26, 43, 52, 53, 56.</p> <p>B. Connect patterns to geometric relations and basic number skills.</p> <p>Pages 9, 10-11, 13, 28, 44, 45.</p> <p>D. Use concrete objects and combinations of symbols and numbers to create expressions that model mathematical situations.</p> <p>Pages 18-19, 26, 27, 42, 43, 44, 45, 52, 53.</p> <p>F. Describe a realistic situation using information given in equations, inequalities, tables or graphs.</p> <p>Pages 17, 26, 27, 31, 46, 54, 56.</p> <p>2.9. Geometry</p> <p>Pennsylvania's public schools shall teach, challenge and support every student to realize his or her maximum potential and to acquire the knowledge and skills to:</p> <p>A. Give formal definitions of geometric figures.</p>
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MATHEMATICS--Grade 5 <i>(continued)</i>	
<p>Pages 9, 10-11, 12.</p> <p>B. Classify and compare triangles and quadrilaterals according to sides or angles.</p> <p>Pages 9, 10-11.</p> <p>G. Create an original tessellation.</p> <p>Pages 10-11.</p> <p>L. Identify properties of geometric figures (e.g., parallel, perpendicular, similar, congruent, symmetrical).</p> <p>Pages 9, 10-11, 12.</p> <p>2.10. Trigonometry</p> <p>Pennsylvania's public schools shall teach, challenge and support every student to realize his or her maximum potential and to acquire the knowledge and skills to:</p> <p>A. Identify and compare parts of right triangles, including right angles, acute angles, hypotenuses and legs.</p> <p>Page 44.</p> <p>2.11. Concepts of Calculus</p> <p>Pennsylvania's public schools shall teach, challenge and support every student to realize his or her maximum potential and to acquire the knowledge and skills to:</p> <p>A. Make comparisons of numbers (e.g., more, less, same, least, most, greater than, less than).</p>	<p>Pages 1-4, 17, 18-19, 26, 27, 35, 36, 53, 54, 56.</p> <p>B. Identify least and greatest values represented in bar and circle graphs.</p> <p>Page 27.</p> <p>D. Describe the relationship between rates of change and time.</p> <p>Pages 18-19.</p>

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SCIENCE AND TECHNOLOGY AND ENVIRONMENT AND ECOLOGY--Grade 4	
<p>3.1. Unifying Themes</p> <p>Pennsylvania’s public schools shall teach, challenge and support every student to realize his or her maximum potential and to acquire the knowledge and skills needed to:</p> <p>A. Know that natural and human- made objects are made up of parts.</p> <p>Pages 12, 13, 18-19, 28, 42, 43, 45, 50-51.</p> <p>B. Know models as useful simplifications of objects or processes.</p> <p>Pages 12, 13, 18-19, 28, 42, 43, 44, 45.</p> <p>C. Illustrate patterns that regularly occur and reoccur in nature.</p> <p>Pages 12, 43, 44, 50-51.</p> <p>D. Know that scale is an important attribute of natural and human made objects, events and phenomena.</p> <p>Pages 12, 13, 28, 42, 43, 45, 55.</p> <p>E. Recognize change in natural and physical systems.</p> <p>Pages 26, 31, 46, 52, 54.</p> <ul style="list-style-type: none"> • Describe the change to objects caused by heat, cold, light or chemicals. <p>Pages 36, 52, 55.</p>	<p>3.2. Inquiry and Design</p> <p>Pennsylvania’s public schools shall teach, challenge and support every student to realize his or her maximum potential and to acquire the knowledge and skills needed to:</p> <p>A. Identify and use the nature of scientific and technological knowledge.</p> <p>Pages 12, 18-19, 20-21, 26, 28, 29, 36, 43, 44, 54, 55, 56.</p> <p>B. Describe objects in the world using the five senses.</p> <p>Pages 12, 36, 42, 43, 44, 45, 49, 50-51, 54, 55, 56.</p> <p>C. Recognize and use the elements of scientific inquiry to solve problems.</p> <p>Pages 18-19, 26, 44, 52.</p> <p>D. Recognize and use the technological design process to solve problems.</p> <p>Page 44.</p> <p>3.3. Biological Sciences</p> <p>Pennsylvania’s public schools shall teach, challenge and support every student to realize his or her maximum potential and to acquire the knowledge and skills needed to:</p> <p>A. Know the similarities and differences of living things.</p> <p>Pages 12, 25, 26, 27, 28, 29, 30, 43, 49, 50-51, 56.</p>

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<p>B. Know that living things are made up of parts that have specific functions.</p> <p>Pages 12, 26, 28, 43, 50-51.</p> <p>C. Know that characteristics are inherited and, thus, offspring closely resemble their parents.</p> <p>Pages 12, 30, 49, 56</p> <p>3.4. Physical Science, Chemistry and Physics</p> <p>Pennsylvania's public schools shall teach, challenge and support every student to realize his or her maximum potential and to acquire the knowledge and skills needed to:</p> <p>A. Recognize basic concepts about the structure and properties of matter.</p> <p>Page 45.</p> <p>B. Know basic energy types, sources and conversions.</p> <p>Pages 18-19, 20-21, 44, 52, 54.</p> <p>C. Observe and describe different types of force and motion.</p> <p>Pages 13, 44, 54.</p> <p>3.5. Earth Sciences</p> <p>Pennsylvania's public schools shall teach, challenge and support every student to realize his or her maximum potential and to acquire the knowledge and skills needed to:</p>	<p>A. Know basic landforms and earth history.</p> <p>Pages 13, 20-21, 54.</p> <p>B. Know types and uses of earth materials.</p> <p>Pages 13, 42.</p> <p>C. Know basic weather elements.</p> <p>Pages 49, 54, 56.</p> <p>3.6. Technology Education</p> <p>Pennsylvania's public schools shall teach, challenge and support every student to realize his or her maximum potential and to acquire the knowledge and skills needed to:</p> <p>A. Know that biotechnologies relate to propagating, growing, maintaining, adapting, treating and converting.</p> <p>Page 55.</p> <p>B. Know that information technologies involve encoding, transmitting, receiving, storing, retrieving and decoding.</p> <p>Pages 18-19, 43.</p> <p>C. Know physical technologies of structural design, analysis and engineering, finance, production, marketing, research and design.</p> <p>Pages 13, 18-19, 42, 46, 60.</p>

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SCIENCE AND TECHNOLOGY AND ENVIRONMENT AND ECOLOGY--Grade 4 (cont'd)	
<p>3.7. Technological Devices</p> <p>Pennsylvania’s public schools shall teach, challenge and support every student to realize his or her maximum potential and to acquire the knowledge and skills needed to:</p> <p style="padding-left: 40px;">B. Select appropriate instruments to study materials.</p> <p style="padding-left: 80px;">Pages 36, 42.</p> <p style="padding-left: 40px;">D. Use basic computer software.</p> <p style="padding-left: 80px;">Pages 5-6, 16, 20-21, 22, 26, 28, 29, 34, 38, 39-41, 42, 46, 47-48, 49, 50-51, 56, 59.</p> <p style="padding-left: 40px;">E. Identify basic computer communications systems.</p> <p style="padding-left: 80px;">Pages 5-6, 16, 20-21, 22, 26, 28, 29, 34, 38, 39-41, 42, 46, 47-48, 49, 50-51, 56, 59.</p> <p>3.8. Science, Technology and Human Endeavors</p> <p>Pennsylvania’s public schools shall teach, challenge and support every student to realize his or her maximum potential and to acquire the knowledge and skills needed to:</p> <p style="padding-left: 40px;">A. Know that people select, create and use science and technology and that they are limited by social and physical restraints.</p> <p style="padding-left: 80px;">Pages 13, 16, 18-19, 20-21, 22, 31, 42, 43, 44, 45, 46, 55, 56.</p> <p style="padding-left: 40px;">B. Know how human ingenuity and technological resources satisfy specific human needs and improve the quality of life.</p>	<p style="text-align: right;">Pages 13, 18-19, 20-21, 22, 31, 42, 43, 45, 46, 55, 56, 59, 60.</p> <p>C. Know the pros and cons of possible solutions to scientific and technological problems in society.</p> <p style="text-align: right;">Pages 13, 22, 31, 46, 60.</p>

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ACADEMIC STANDARDS FOR GEOGRAPHY--Grade 6	
<p>7.1. Basic Geographic Literacy</p> <p>Pennsylvania’s public schools shall teach, challenge and support every student to realize his or her maximum potential and to acquire the knowledge and skills needed to:</p> <p>A. Describe geographic tools and their uses.</p> <p>Pages 13, 20-21, 49, 56.</p> <p>B. Describe and locate places and regions.</p> <p>Pages 13, 20-21.</p> <p>7.2 The Physical Characteristics of Places and Regions</p> <p>Pennsylvania’s public schools shall teach, challenge and support every student to realize his or her maximum potential and to acquire the knowledge and skills needed to:</p> <p>A. Describe the physical characteristics of places and regions.</p> <p>Pages 13, 20-21, 49, 54, 56.</p> <p>B. Describe the physical processes that shape patterns on Earth’s surface.</p> <p>Page 54.</p> <p>7.3 The Human Characteristics of Places and Regions</p> <p>A. Describe the human characteristics of places and regions by their population characteristics.</p> <p>Pages 13, 20-21.</p>	<p>B. Describe the human characteristics of places and regions by their cultural characteristics.</p> <p>Page 13.</p> <p>C. Describe the human characteristics of places and regions by their settlement characteristics.</p> <p>Page 13.</p> <p>D. Describe the human characteristics of places and regions by their economic activities.</p> <p>Pages 13, 20-21, 22.</p> <p>7.4 The Interactions Between People and Places</p> <p>Pennsylvania’s public schools shall teach, challenge and support every student to realize his or her maximum potential and to acquire the knowledge and skills needed to:</p> <p>A. Describe the impacts of physical systems on people.</p> <p>Pages 13, 20-21.</p> <p>B. Describe the impacts of people on physical systems.</p> <p>Pages 49, 55, 56.</p>

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PROPOSED ACADEMIC STANDARDS FOR HISTORY--Grade 6	ECONOMICS - Grade 5
<p>8.1. Historical Analysis and Skills Development</p> <p>Pennsylvania’s public schools shall teach, challenge and support every student to realize his or her maximum potential and to acquire the knowledge and skills needed to:</p> <p>A. Understand chronological thinking and distinguish between past, present and future time.</p> <p>Pages 31, 42, 46.</p> <p>B. Explain and analyze historical sources.</p> <p>Pages 31, 42, 46.</p> <p>C. Explain the fundamentals of historical interpretation</p> <p>Pages 31, 42, 46.</p> <p>D. Describe and explain historical research.</p> <p>Pages 31, 42, 46.</p>	<p>6.1. Economic Systems</p> <p>Pennsylvania’s public schools shall teach, challenge and support every student to realize his or her maximum potential and to acquire the knowledge and skills needed to:</p> <p>B. Explain the three basic questions that all economic systems attempt to answer.</p> <p>Pages 16, 17, 20-21, 22, 59, 60.</p> <p>C. Define measures of economic activity and relate them to the health of the economy.</p> <p>Pages 16, 22, 59.</p> <p>6.2. Markets and the Functions of Governments</p> <p>Pennsylvania’s public schools shall teach, challenge and support every student to realize his or her maximum potential and to acquire the knowledge and skills needed to:</p> <p>A. Describe market transactions in terms of goods, services, consumers and producers.</p> <p>Pages 16, 17, 20-21, 22, 56.</p> <p>B. Describe the costs and benefits of competition to consumers in markets.</p> <p>Page 22.</p> <p>C. Explain the function of money and its use in society.</p> <p>Pages 17, 22, 56.</p>

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<p>ECONOMICS - Grade 5 <i>(continued)</i></p> <p>E. Explain how the interaction of buyers and sellers determines prices and quantities exchanged.</p> <p>Pages 17, 22, 56.</p> <p>F. Describe how prices influence both buyers and sellers and explain why prices may vary for similar products.</p> <p>Page 22.</p> <p>K. Explain how advertisements influence perceptions of the costs and benefits of economic decisions.</p> <p>Page 16.</p> <p>6.3. Scarcity and Choice</p> <p>Pennsylvania’s public schools shall teach, challenge and support every student to realize his or her maximum potential and to acquire the knowledge and skills needed to:</p> <p>A. Explain how scarcity influences choices and behaviors.</p> <p>Pages 17, 22, 37, 56.</p> <p>B. Explain how limited resources and unlimited wants cause scarcity.</p> <p>Pages 17, 22, 37, 56.</p> <p>C. Describe the natural, human and capital resources used to produce a specific good or service.</p> <p>Pages 16, 22.</p>	<p>6.4. Economic Interdependence</p> <p>Pennsylvania’s public schools shall teach, challenge and support every student to realize his or her maximum potential and to acquire the knowledge and skills needed to:</p> <p>A. Explain the advantages and disadvantages of specialization and division of labor.</p> <p>Pages 39-41.</p> <p>D. Explain how the location of resources, transportation and communication networks and technology have affected Pennsylvania economic patterns.</p> <p>Page 13.</p> <p>6.5. Work and Earnings</p> <p>Pennsylvania’s public schools shall teach, challenge and support every student to realize his or her maximum potential and to acquire the knowledge and skills needed to:</p> <p>A. Recognize that the availability of goods and services is the result of work by members of the society.</p> <p>Pages 16, 20-21, 22, 46, 56, 59, 60.</p> <p>D. Explain how profits and losses serve as incentives.</p> <p>Page 22.</p>
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CIVICS AND GOVERNMENT - Grade 6	
<p>5.2. Rights and Responsibilities of Citizenship</p> <p>Pennsylvania's public schools shall teach, challenge and support every student to realize his or her maximum potential and to acquire the knowledge and skills needed to:</p> <p>A. Compare rights and responsibilities of citizenship.</p> <p>Pages 14-15, 22, 23-24, 32-33, 38, 47-48, 59.</p> <p>C. Explain ways citizens resolve conflicts in society and government.</p> <p>Pages 14-15, 23-24, 32-33, 39-41.</p>	