Egypt Unit Standards Alignment

COMMON CORE STATE STANDARDS (CCSS)

Grade Level	English Language Arts		Mathematics
	Reading	**Writing**	
Grade 4	**Informational Text** ▸ **RI.4.4** Determine the meaning of general academic and domain-specific words or phrases in a text relevant to a grade 4 topic or subject area. ▸ **RI.4.7** Interpret information presented visually, orally, or quantitatively (e.g., in charts, graphs, diagrams, timelines, animations, or interactive elements on Web pages) and explain how the information contributes to an understanding of the text in which it appears.	**Write informative / explanatory texts to examine a topic and convey ideas and information clearly.** ▸ **W.4.2.D** Use precise language and domain-specific vocabulary to inform about or explain the topic.	**Operations and Algebraic Thinking - Use the four operations with whole numbers to solve problems.** ▸ **4.OA.A.1** Interpret a multiplication equation as a comparison, e.g., interpret $35 = 5 \times 7$ as a statement that 35 is 5 times as many as 7 and 7 times as many as 5. Represent verbal statements of multiplicative comparisons as multiplication equations. ▸ **4.OA.A.2** Multiply or divide to solve word problems involving multiplicative comparison, e.g., by using drawings and equations with a symbol for the unknown number to represent the problem, distinguishing multiplicative comparison from additive comparison. **Geometry - Draw and identify lines and angles and classify shapes by the properties of their lines and angles.** ▸ **4.G.A.2** Classify two-dimensional figures based on the presence or absence of parallel or perpendicular lines, or the presence or absence of angles of a specified size. Recognize right triangles as a category and identify right triangles.
Grade 5	**Informational Text** ▸ **RI.5.4** Determine the meaning of general academic and domain-specific words and phrases in a text relevant to a grade 5 topic or subject area.	**Write informative/explanatory texts to examine a topic and convey ideas and information clearly.** ▸ **W.5.2.D** Use precise language and domain-specific vocabulary to inform about or explain the topic. **Write narratives to develop real or imagined experiences or events using effective techniques, descriptive details, and clear event sequences.** ▸ **W.5.3.C** Use a variety of transitional words, phrases, and clauses to manage the sequence of events.	**Number and Operations-Fractions - Apply and extend previous understandings of multiplication and division to multiply and divide fractions.** ▸ **5.NF.B.A** Interpret multiplication as scaling (resizing), by: Comparing the size of a product to the size of one factor on the basis of the size of the other factor, without performing the indicated multiplication. ▸ **5.NF.B.6** Solve real-world problems involving multiplication of fractions and mixed numbers, e.g., by using visual fraction models or equations to represent the problem. **Measurement and Data - Convert like measurement units within a given measurement system.** ▸ **5.MD.A.1** Convert among different-sized standard measurement units within a given measurement system (e.g., convert 5 cm to 0.05 m), and use these conversions in solving multi-step, real-world problems. **Geometry - Classify two-dimensional figures into categories based on their properties.** ▸ **5.G.B.3** Understand that attributes belonging to a category of two-dimensional figures also belong to all subcategories of that category. ▸ **5.G.B.4** Classify two-dimensional figures in a hierarchy based on properties.

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	Reading	**Writing**	
Grade 6	**Literature** ► **RI.6.4** Determine the meaning of words and phrases as they are used in a text, including figurative, connotative, and technical meanings.	**Write informative/explanatory texts to examine a topic and convey ideas, concepts, and information through the selection, organization, and analysis of relevant content.** ► **W.6.2.D** Use precise language and domain-specific vocabulary to inform about or explain the topic. **Language** ► **L.6.6** 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.	**Ratios and Proportional Relationships - Understand ratio concepts and use ratio reasoning to solve problems.** ► **6.RP.A.1** Understand the concept of a ratio and use ratio language to describe a ratio relationship between two quantities. ► **6.RP.A.2** Understand the concept of a unit rate a/b associated with a ratio a:b with b is not equal to 0 and use rate language in the context of a ratio relationship. ► **6.RP.A.3** Use ratio and rate reasoning to solve real-world and mathematical problems, e.g., by reasoning about tables of equivalent ratios, tape diagrams, double number line diagrams, or equations. **Geometry - Solve real-world and mathematical problems involving area, surface area, and volume.** ► **6.G.A.1** Find the area of right triangles, other triangles, special quadrilaterals, and polygons by composing into rectangles or decomposing into triangles and other shapes; apply these techniques in the context of solving real-world and mathematical problems.

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	Reading	**Writing**	
Grade 7	**Informational Text** ► **RI.7.4** Determine the meaning of words and phrases as they are used in a text, including figurative, connotative, and technical meanings; analyze the impact of a specific word choice on meaning and tone.	**Write informative/explanatory texts to examine a topic and convey ideas, concepts, and information through the selection, organization, and analysis of relevant content.** ► **W.7.2.D** Use precise language and domain-specific vocabulary to inform about or explain the topic. **Language** ► **L.7.6 A**cquire 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.	**Ratios and Proportional Relationships-** Analyze proportional relationships and use them to solve real-world and mathematical problems. ► **7.RP.A.1** Compute unit rates associated with ratios of fractions, including ratios of lengths, areas and other quantities measured in like or different units. ► **7.RP.A.2** Recognize and represent proportional relationships between quantities. **Expressions and Equations -** Solve real-life and mathematical problems using numerical and algebraic expressions and equations. ► **7.EE.B.3** Solve multi-step real-life and mathematical problems posed with positive and negative rational numbers in any form (whole numbers, fractions, and decimals), using tools strategically. Apply properties of operations to calculate with numbers in any form; convert between forms as appropriate; and assess the reasonableness of answers using mental computation and estimation strategies. ► **7.EE.B.4** Use variables to represent quantities in a real-world or mathematical problem and construct simple equations and inequalities to solve problems by reasoning about the quantities. **Geometry -** Solve real-life and mathematical problems involving angle measure, area, surface area, and volume. ► **7.G.B.5** Use facts about supplementary, complementary, vertical, and adjacent angles in a multi-step problem to write and solve simple equations for an unknown angle in a figure. ► **7.G.B.6** Solve real-world and mathematical problems involving area, volume, and surface area of two- and three-dimensional objects composed of triangles, quadrilaterals, polygons, cubes, and right prisms.

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Grade 8	**Informational Text** ▸ **RI.8.4** Determine the meaning of words and phrases as they are used in a text, including figurative, connotative, and technical meanings; analyze the impact of specific word choices on meaning and tone, including analogies or allusions to other texts. ▸ **RI.8.7** Evaluate the advantages and disadvantages of using different mediums (e.g., print or digital text, video, multimedia) to present a particular topic or idea.	**Write informative/explanatory texts to examine a topic and convey ideas, concepts, and information through the selection, organization, and analysis of relevant content.** ▸ **W.8.2.D** Use precise language and domain-specific vocabulary to inform about or explain the topic. **Language** ▸ **L.8.6** 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.	**Geometry - Understand congruence and similarity using physical models, transparencies, or geometry software.** ▸ **8.G.A.5** Use informal arguments to establish facts about the angle sum and exterior angle of triangles, about the angles created when parallel lines are cut by a transversal, and the angle-angle criterion for similarity of triangles.

International Society for Technology in Education (ISTE) Standards

Empowered Learner

▸ **1.1.d** Students understand the fundamental concepts of technology operations, demonstrate the ability to choose, use and troubleshoot current technologies, and are able to transfer their knowledge to explore emerging technologies.

Digital Citizen

▸ **1.2.b** Students engage in positive, safe, legal, and ethical behavior when using technology, including social interactions online or when using networked devices.

Innovative Designer

▸ **1.4.d** Students exhibit a tolerance for ambiguity, perseverance, and the capacity to work with open-ended problems.

Computational Thinker

▸ **1.5** Students develop and employ strategies for understanding and solving problems in ways that leverage the power of technological methods to develop and test solutions.