Correlation: 2016 Alabama Course of Study, Mathematics standards and NAEP Objectives

When teaching Alabama Course of Study content, NAEP objectives and items are useful for identifying a level of rigor which matches proficient student performance nationwide. The NAEP objectives identify content that could be included in lessons building toward master of the correlating standards from the *2016 Alabama Course of Study: Mathematics*.

Grade	Grade 1 Alabama Course of Study Standard	NAEP Objective(s) Grade 4	NAEP Objective(s) Grade 8
1	**7. [1.OA.7]** Understand the meaning of the equal sign, and determine if equations involving addition and subtraction are true or false. - Example: Which of the following equations are true and which are false? 6 = 6, 7 = 8 - 1, 5 + 2 = 2 + 5, 4 + 1 = 5 + 2.		**8A4b** Interpret "=" as an equivalence between two expressions and use this interpretation to solve problems.
1	**8. [1.OA.8]** Determine the unknown whole number in an addition or subtraction equation relating to three whole numbers. - Example: Determine the unknown number that makes the equation true in each of the equations, 8 + ? = 11, 5 = _ - 3, and 6 + 6 = _.	**4NPO3f** Solve application problems involving numbers and operations.	
1	**20. [1.G.2]** Compose two-dimensional shapes (rectangles, squares, trapezoids, triangles, half-circles, and quarter-circles) or three-dimensional shapes (cubes, right rectangular prisms, right circular cones, and right circular cylinders) to create a composite shape, and compose new shapes from the composite shape. (Students do not need to learn formal names such as "right rectangular prism.")	**4G3b** Assemble simple plane shapes to construct a given shape. **4G3f** Describe and compare properties of simple and compound figures composed of triangles, squares, and rectangles.	