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NEXT GENERATION SCIENCE STANDARDS*			
FIRST & SECOND GRADE (K-2)	Activity 1	Activity 2	Activity 3
K-2-ETS1-1 Engineering Design: Ask questions, make observations, and gather information about a situation people want to change to define a simple problem that can be solved through the development of a new or improved object or tool.			X
K-2-ETS1-2 Engineering Design: Develop a simple sketch, drawing, or physical model to illustrate how the shape of an object helps it function as needed to solve a given problem.			X
2-PS1-1 Matter and Its Interactions: Plan and conduct an investigation to describe and classify different kinds of materials by their observable properties.	X		
2-PS1-3 Matter and Its Interactions Make observations to construct an evidence-based account of how an object made of a small set of pieces can be disassembled and made into a new object.			X
THIRD GRADE (3-5)	Activity 1	Activity 2	Activity 3
3-5-ETS1-2 Engineering Design: Define a simple design problem reflecting a need or a want that includes specified criteria for success and constraints on materials, design or cost.			X
3-5-ETS1-2 Engineering Design: Generate and compare multiple possible solutions to a problem based on how well each is likely to meet the criteria and constraints of the problem.	X		X

*NGSS Lead States. 2013. Next Generation Science Standards: For States, By States. Washington, DC: The National Academies Press.



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COMMON CORE ENGLISH LANGUAGE ARTS STANDARDS**			
FIRST GRADE	Activity 1	Activity 2	Activity 3
READING: FOUNDATIONAL SKILLS			
Fluency: <u>CCSS.ELA-LITERACY.RF.1.4</u> Read with sufficient accuracy and fluency to support comprehension.	X		
READING: INFORMATIONAL TEXT			
Craft and Structure: <u>CCSS.ELA-LITERACY.RI.1.5</u> Know and use various text features to locate key facts or information in a text.	X		
SECOND GRADE	Activity 1	Activity 2	Activity 3
READING: FOUNDATIONAL SKILLS			
Phonics and Word Recognition: <u>CCSS.ELA-LITERACY.RF.2.3</u> Know and apply grade-level phonics and word analysis skills in decoding words.	X		
Fluency: <u>CCSS.ELA-LITERACY.RF.2.4</u> Read with sufficient accuracy and fluency to support comprehension.	X		
LANGUAGE			
Vocabulary Acquisition and Use: <u>CCSS.ELA-LITERACY.L.2.4</u> Determine or clarify the meaning of unknown and multiple-meaning words and phrases based on grade 2 reading and content, choosing flexibly from an array of strategies.	X		

**National Governors Association Center for Best Practices & Council of Chief State School Officers (2010). Common Core State Standards for English Language Arts. Washington, DC: Authors.



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THIRD GRADE	Activity 1	Activity 2	Activity 3
READING: FOUNDATIONAL SKILLS			
Phonics and Word Recognition: <u>CCSS.ELA-LITERACY.RF.3.3</u> Know and apply grade-level phonics and word analysis skills in decoding words.	X		
Fluency: <u>CCSS.ELA-LITERACY.RF.3.4</u> Read with sufficient accuracy and fluency to support comprehension.	X		
LANGUAGE			
Vocabulary Acquisition and Use: <u>CCSS.ELA-LITERACY.L.3.4</u> Determine or clarify the meaning of unknown and multiple-meaning words and phrases based on grade 3 reading and content, choosing flexibly from an array of strategies.	X		

MATHEMATICS STANDARDS***			
FIRST GRADE	Activity 1	Activity 2	Activity 3
GEOMETRY			
Reason with shapes and their attributes. <u>CCSS.MATH.CONTENT.1.G.A.2</u> 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.		X	
SECOND GRADE	Activity 1	Activity 2	Activity 3
GEOMETRY			
Reason with shapes and their attributes. <u>CCSS.MATH.CONTENT.2.G.A.1</u> Recognize and draw shapes having specified attributes, such as a given number of angles or a given number of equal faces. Identify triangles, quadrilaterals, pentagons, hexagons, and cubes.		X	

***National Governors Association Center for Best Practices & Council of Chief State School Officers (2010). Common Core State Standards for Mathematics. Washington, DC: Authors.



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THIRD GRADE	Activity 1	Activity 2	Activity 3
MEASUREMENT & DATA			
Geometric measurement: understand concepts of area and relate area to multiplication and to addition. <u>CCSS.MATH.CONTENT.3.MD.C.6</u> Measure areas by counting unit squares (square cm, square m, square in, square ft, and improvised units).		X	
Geometric measurement: recognize perimeter. <u>CCSS.MATH.CONTENT.3.MD.D.8</u> Solve real world and mathematical problems involving perimeters of polygons, including finding the perimeter given the side lengths, finding an unknown side length, and exhibiting rectangles with the same perimeter and different areas or with the same area and different perimeters.		X	

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