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NEXT GENERATION SCIENCE STANDARDS

Grades K-2		Activity	
		1	2
K-ETS1-2	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	
K-ESS3-3	Communicate solutions that will reduce the impact of humans on land, water, air and/or other living things in the local environment.		X
2-ESS2-2	Develop a model to represent the shapes and kinds of land and bodies of water in an area.		X

Grades 3-5		Activity		
		1	2	3
3-ESS2-2	Obtain and combine information to describe climates in different regions of the world.			X
4-PS3-1	Use evidence to construct an explanation relating the speed of an object to the energy of that object.		X	
4-PS3-2	Make observations to provide evidence that energy can be transferred from place to place by sound, light, heat and electric currents.		X	
4-PS3-4	Apply scientific ideas to design, test and refine a device that converts energy from one form to another.		X	
4-ESS2-2	Analyze and interpret data from maps to describe patterns of Earth's features.			X
4-ESS3-1	Obtain and combine information to describe that energy and fuels are derived from natural resources and their uses affect the environment.		X	X
5-ESS3-1	Obtain and combine information about ways individual communities use science ideas to protect the Earth's resources and environment.	X		

Grades 6-8			Activity		
		1	2	3	4
MS-ESS3-3	Apply scientific principles to design a method for monitoring and minimizing a human impact on the environment.	X			
MS-ESS3-4	Construct an argument supported by evidence for how increases in human population and per-capita consumption of natural resources impact Earth's systems.		X		
MS-ESS3-5	Ask questions to clarify evidence of the factors that have caused the rise in global temperatures over the past century.		X		X
MS-PS3-5	Construct, use, and present arguments to support the claim that when the kinetic energy of an object changes, energy is transferred to or from the object.			X	

COMMON CORE—MATH

Grades K-2	Activity	
	1	2
CCSS.MATH.CONTENT.K.CC.A.1 Count to 100 by ones and by tens.	X	
CCSS.MATH.CONTENT.K.MD.A.2 Directly compare two objects with a measurable attribute in common, to see which object has "more of"/"less of" the attribute, and describe the difference.		X

Grades 3-5	Activity		
	1	2	3
CCSS.MATH.CONTENT.3.MD.A.2 Measure and estimate liquid volumes and masses of objects using standard units of grams (g), kilograms (kg), and liters (l). Add, subtract, multiply, or divide to solve one-step word problems involving masses or volumes that are given in the same units, e.g., by using drawings (such as a beaker with a measurement scale) to represent the problem.	X		
CCSS.MATH.CONTENT.5.NBT.B.5 Fluently multiply multi-digit whole numbers using the standard algorithm.	X		

Grades 6-8	Activity			
	1	2	3	4
CCSS.MATH.CONTENT.6.NS.B.2 Fluently divide multi-digit numbers using the standard algorithm.		X		
CCSS.MATH.CONTENT.6.NS.C.6 Understand a rational number as a point on the number line.		X		
CCSS.MATH.PRACTICE.MP2 Reason abstractly and quantitatively.		X		

COMMON CORE—ELA

Grades K-2	Activity	
	1	2
CCSS.ELA-LITERACY.RI.K.7 With prompting and support, describe the relationship between illustrations and the text in which they appear (e.g., what person, place, thing, or idea in the text an illustration depicts).	X	
CCSS.ELA-LITERACY.RI.K.10 Actively engage in group reading activities with purpose and understanding.	X	
CCSS.ELA-LITERACY.RI.1.2 With prompting and support, identify the main topic and retell key details of a text.	X	
CCSS.ELA-LITERACY.RI.1.4 Ask and answer questions to help determine or clarify the meaning of words and phrases in a text.	X	X
CCSS.ELA-LITERACY.RI.1.5 Know and use various text features (e.g., headings, tables of contents, glossaries, electronic menus, icons) to locate key facts or information in a text.		X
CCSS.ELA-LITERACY.RF.2.4 Read with sufficient accuracy and fluency to support comprehension.	X	X
CCSS.ELA-LITERACY.RI.2.3 Describe the connection between a series of historical events, scientific ideas or concepts, or steps in technical procedures in a text.	X	

Grades 3-5	Activity		
	1	2	3
CCSS.ELA-LITERACY.RI.3.1 Ask and answer questions to demonstrate understanding of a text, referring explicitly to the text as the basis for the answers.			X
CCSS.ELA-LITERACY.RI.3.3 Describe the relationship between a series of historical events, scientific ideas or concepts, or steps in technical procedures in a text, using language that pertains to time, sequence, and cause/effect.	X		
CCSS.ELA-LITERACY.RI.4.7 Interpret information presented visually, orally, or quantitatively (e.g., in charts, graphs, diagrams, time lines, animations, or interactive elements on Web pages), and explain how the information contributes to an understanding of the text in which it appears.			X
CCSS.ELA-LITERACY.RI.4.9 & CCSS.ELA-LITERACY.RI.5.9 Integrate information from several texts on the same topic in order to write or speak about the subject knowledgeably.		X	X

Grades 6-8	Activity			
	1	2	3	4
CCSS.ELA-LITERACY.RI.6.2 Determine a central idea of a text and how it is conveyed through particular details; provide a summary of the text distinct from personal opinions or judgments.				X

ARTS EDUCATION

Grades	K-2		3-5			6-8			
Activity	1	2	1	2	3	1	2	3	4
VISUAL ARTS									
VA:Cr1.1.Ka Engage in exploration and imaginative play with materials.	X								
VA:Cr2.3.Ka Create art that represents natural and constructed environments.		X							
VA:Cr3.1.3a Elaborate visual information by adding details in an artwork to enhance emerging meaning.				X					
VA:Cr2.3.7a Apply visual organizational strategies to design and produce a work of art, design, or media that clearly communicates information or ideas.									X
VA:Cr2.3.8a Select, organize, and design images and words to make visually clear and compelling presentations.									X
MEDIA ARTS									
MA:Cr1.1.3 Develop multiple ideas for media artworks using a variety of tools, methods and/or materials.					X				X
MA:Pr4.1.5 Create media artworks through the integration of multiple contents and forms, such as a media broadcast.									X