Grade: 4 Unit: 1 Energy, Motion, & Electricity

Mystery Science: Energizing Everything

Timeline: September-December

Mystery	Supplies	
Unit Starter: Energy & Modeling	Printouts	
Mystery 1: Speed and Energy	Number of	students: 25
	Crayons	<u>Details</u>
	Hardcover Books	<u>Details</u>
	Ruler	26
	Scissors	25 pairs
	Rubber Bands (#16) 1	13
	Rubber Bands (#62) 1	13
	Small Binder Clips (3/4")	52
	Twist-O-Matic Challenges Answer Key printout	Print 1 copy
	Twist-O-Matic Challenges printout	Print 25 copies
	Twist-O-Matic printout Students working alone will need 2 copies of this template.	Print 26 copies

Mystery 2: Collisions & Energy Transfer	Number of	students: 25
	Box 1	Details
	Pencil	7 pencils
	Ruler	7 rulers
	Scissors	7 pairs
	File Folder Labels (1)	<u>Details</u>
	Smooth Paper Clips (#2)	91 clips
	Small Marbles	28 marbles
	Bumper Coaster Part I Tracks (4 pages) printout	Print 7 copies
	Collision Experiments printout	Print 13 copies
	Alligator printout	Print 7 copies
	Distance & Height Experiments printout	Print 25 copies
	Bumper Coaster Part I Answer Key (2 pages) printout	Print 1 copy
Mystery 3: Energy Transfer & Engineering	Print material	

Mystery 4: Energy & Engineering	Nu	umber of students: 25
	Markers	<u>Details</u>
	Ruler	25 rulers
	Scissors	25 pairs
	Dixie Cups (3 oz)	25 cups
	File Folder Labels 1	<u>Details</u>
	Paper Cups (8 oz)	<u>Details</u>
	Rubber Bands (#32)	25 bands
	Smooth Paper Clips (#2)	25 clips
	Small Marbles 1	25 marbles
	Chain-Reaction Starter Kit printout	Print 25 copies
	Marble Corral printout	Print 25 copies
Mystery 5: Energy & Nu		umber of students: 25
	Hardcover Books	39 books
	Lever from Energizing Everything M4	13 built levers
	Markers	13 markers
	Ramp from Energizing Everything M4	13 built ramps
	Scissors	13 pairs
	Dixie Cups (3 oz)	13 cups
	File Folder Labels 1	<u>Details</u>
	Index Cards (3x5)	13 cards
	Paper Clips (Jumbo)	<u>Details</u>
	Small Marbles 1	13 marbles
	Chain-Reaction Starter Kit printout	Print 25 copies
	Pop-Up Sign printout	Print 25 copies

Mystery 6: Electrical Energy	Number of studen	
	Scissors	25 pairs
	Aluminum Foil	9 feet
	File Folder Labels (1)	<u>Details</u>
	Index Cards (3x5)	25 cards
	Batteries (3V 2032 button)	5 batteries
	Batteries (3V 2032 button)	25 batteries
	LEDs	<u>Details</u>
	Flashlight Maker printout	Print 25 copies
Mystery 7: heat, Engines, & Energy Transfer	Each student will need:	
Mystery 8: Energy Resources & Environmental Impacts	Printouts	
Performance Task: Energy & Engineering	Supplies on hand Printouts	

Grade: 4 Unit: 2 Sound, Waves & Communication

Mystery Science: Waves of Sound

Timeline: January

Mystery	Supplies
Unit Starter: Sound Waves & Conceptual Modeling	Printouts
Mystery 1: Sound and Vibrations	Each child will need:
Mystery 2: Sound and Vibrations	 Each pair of students will need: A balloon Medium binder clip Tape printouts
Mystery 3: Sound, Vibrations and Waves	Jump rope for each group of 8 studentsPrintouts
Performance Task: Sound Waves & Engineering	 Students may bring in materials and objects from home to use in their machines. Reuse supplies from the paper cup telephone activity and to raid your recycling bin and craft box for additional supplies. You can use those supplies to substitute for or supplement our list.

Grade: 4 Unit: 3 Human Body, Senses & the Brain

Mystery Science: Human Machine

Timeline: February/March

Mystery	Supplies
Unit Starter: System Models	Printouts
Mystery 1: Muscles and Skeleton	Previous suppliesPrintout
Mystery 2: Eyes and Vision	 3X credit-card magnifier Previous supplies Printouts
Mystery 3: How Eyes Work	Printout
Mystery 4: Brain and Nerves	Printout
Performance Task: system Modeling & Explanation	Printout packets

Grade: 4 Unit: 4 Rock Cycle & Earth's Processes

Mystery Science: The Birth of Rocks

Timeline: April-June

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Mystery Science	Supplies	
Unit Starter: Fossils and Constructing Explanations	Printouts	
Mystery 1: Volcanoes, Rock Cycle and Earth's Surface	Print out Mapping sheetsRed pencil	
Mystery 2: Volcanoes, Rock Cycle and Earth's Surface	Each student needs:	
Mystery 3: Weathering and Destructive Forces	Number of students: 25	
	Markers	<u>Details</u>
	Paper Plates (9")	13 plates
	Plastic Containers w/ Lids	13 containers
	Sugar Cubes	65 cubes
	Sugar Shake Data (2 pages) printout	Print 25 copies
Mystery 4: Erosion, Natural Hazards & Engineering	250 post-itsPrintouts	
Performance Task: Rocks & Earth's Surface	Printouts	