

Product

Adaptive Curriculum is an award-winning online supplemental curriculum program that provides interactive, discovery-based, and high-quality visuals designed to enhance teaching and learning in Mathematics and Science for teachers and learners in the middle grades.

Topic	Concept	Activity Object	Type	6	7	8
Nature of Matter	Concept of Matter	Energy and Matter: A Sci-Fi Adventure	Concept Development	X	X	X
	Properties of Matter	Physical Properties of Matter	Concept Development	X	X	X
		The Density of Marbles	Experiment	X	X	X
		The Thermal Expansion of Metals	Experiment	X	X	X
	Molecules and Compounds	Chemical Bonding: Covalent Compounds	Concept Development	X	X	X
		A Musical Introduction to Chemical Formulas	Concept Development	X	X	X
Chemical Bonding: Ionic Compounds		Concept Development	X	X	X	
Structure of Atoms	Atomic Model History: Early Ideas to Thomson	Concept Development	X	X	X	
	Atomic Model History: From Rutherford to Bohr	Concept Development	X	X	X	
	Putting the Elements in the Periodic Tables	Concept Development	X	X	X	
Chemical Bonds	Electron Energy Levels	Concept Development	X	X	X	
Classification of Elements & Periodic Table	Physical Properties and the Periodic Table	Concept Development	X	X	X	
States of Matter	Solids, Liquids, and Gases	Properties of Solids, Liquids and Gases	Concept Development	X	X	X
	Changes of State	Melting and Boiling Point: Different Materials	Experiment	X	X	X
		Melting and Boiling Point: Heating Curves	Experiment	X	X	X
Changes of Matter	Concept of Physical & Chemical Change	Physical and Chemic Change	Concept Development	X	X	X
		Conservation of Mass in Chemical Reactions	Experiment	X	X	X
		Endothermic and Exothermic Reactions	Experiment	X	X	X
Energy	Types of Energy	Renewable Energy Sources	Concept Development	X	X	X
		Nuclear Energy: Fission	Concept Development	X	X	X
		Rollercoaster Design: Potential and Kinetic Energy	Concept Development	X	X	X
		Heat Conduction of Different Materials	Concept Development	X	X	X
		Properties of Waves	Concept Development	X	X	X
	Energy Transfers	Endothermic and Exothermic Reactions	Concept Development	X	X	X
		Heat Conduction and the Frying Pan	Experiment	X	X	X
		The Transformation of Energy	Concept Development	X	X	X
		Light Intensity and the Distance from the Source	Experiment	X	X	X
	Heat Transfer in a Truck Engine	Concept Development	X	X	X	
	Properties of Waves	Concept Development	X	X	X	
Energy Conservations	Energy Conservations in a Power Plant	Concept Development	X	X	X	
Mixtures	Pure Matter, Mixtures & Separation of Mixtures	Separation of Mixtures	Concept Development	X	X	X
	Homogenous Mixtures, Solutions and Solubility	Separation of Mixtures Solubility	Concept Development Experiment	X X	X X	X X
Acids & Bases	Acids and Bases	The Properties of Acids	Experiment	X	X	X
		The Properties of Bases	Experiment	X	X	X
Electricity	Electricity and Static Electricity	Electrical Force	Experiment	X	X	X
	Electricity Circuits & Circuit Components	Building Circuits: Light Bulbs in Series	Concept Development	X	X	X
		Voltage, Current and Resistance: Ohm's Law	Experiment	X	X	X
		Building Circuits: Light Bulbs in Parallel	Concept Development	X	X	X
	Resistance in Different Wire	Experiment	X	X	X	
Electrical Energy and Electrical Sources	Electrical Energy Consumed by a Light Bulb Electric Motor	Experiment Experiment	X X	X X	X X	

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Force and Motion	Force	Balanced and Unbalanced Forces	Experiment	X	X	X
		Newton's Third Law of Motion	Experiment	X	X	X
		Magnetic Field of a Magnet	Experiment	X	X	X
	Motion	Newton's Second Law of Motion	Experiment	X	X	X
		Boom! How Far is the Lightning?	Concept Development	X	X	X
		Free Fall	Experiment	X	X	X
		Truck On: Position and Velocity-Time Graphs	Concept Development	X	X	X
		Properties of Waves	Concept Development	X	X	X
		Springs Stretch with Force: Hooke's Law	Experiment	X	X	X
		Driving and Velocity Graphs	Concept Development	X	X	X
Friction	Sliding on Different Surfaces	Concept Development	X	X	X	
	The Advantages of Friction	Concept Development	X	X	X	
Magnets and Magnetic Force	Magnetic Field of a Magnet	Experiment	X	X	X	
	The Magnetic Field of a Coil	Experiment	X	X	X	
	Magnetic Force	Experiment	X	X	X	
Gravity	Escape Velocity: Launching Rockets	Concept Development	X	X	X	
Buoyancy	Buoyant Force	Experiment	X	X	X	
	Buoyancy and Archimedes' Principle	Experiment	X	X	X	
Work and Energy	Work, Kinetic and Potential Energy	Work	Experiment	X	X	X
		Potential Energy: Seeing the Impact in Sand	Experiment	X	X	X
		Kinetic Energy: How it Changes with Mass & Speed	Experiment	X	X	X
Simple Machines	Simple Machines: Lever	Experiment	X	X	X	
Pressure	Pressure in Liquids & Gases	Pressure in Liquids	Experiment	X	X	X
Light	Light Sources and Illumination Technologies	Electromagnetic Spectrum	Concept Development	X	X	X
		Color Mixing: Paint and Lights	Concept Development	X	X	X
	Light Propagation and Shadow Formation	<i>Shadow Formation (coming soon)</i>	Concept Development	X	X	X
Interaction of Light with Matter	Refraction of Light	Concept Development	X	X	X	
	Reflection of Light from Plane Mirrors	Experiment	X	X	X	
	Color Absorption and Reflection: Light into Heat	Experiment	X	X	X	
	Light Reflection Puzzles	Concept Development	X	X	X	
The Earth System	Earth Materials and Shaping the Earth Surface	Drilling Into Groundwater	Concept Development	X	X	X
		Determining Planet Layers from Seismic Waves	Concept Development	X	X	X
		Plate Tectonics: The Hawaiian Islands	Concept Development	X	X	X
		Plate Tectonics: The Himalayas	Concept Development	X	X	X
		Plate Tectonics: The Atlantic Ocean	Concept Development	X	X	X
		Earthquakes: Measuring Magnitude	Concept Development	X	X	X
		Earthquake! Where Was It?	Concept Development	X	X	X
		Pangaea: Image of the Earth 250 Million Years Ago	Concept Development	X	X	X
		The Rock Cycle	Experiment	X	X	X
		Soil Erosion Investigations	Concept Development	X	X	X
	Find Location	Concept Development	X	X	X	
	Resources in the Earth System	Solar Energy: Design a Solar Car	Concept Development	X	X	X
		Water Conservation	Concept Development	X	X	X
Nonrenewable Energy Sources		Concept Development	X	X	X	
Weather	Greenhouse Effect	Experiment	X	X	X	
	Sea and Land Breezes	Concept Development	X	X	X	
	Hurricane Formation	Concept Development	X	X	X	
	Fog, Dew, and Cloud Formation	Concept Development	X	X	X	
	<i>Weather Prediction (coming soon)</i>	Concept Development	X	X	X	

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Earth and Universe	Earth, Moon and Sun	Formation of Seasons	Concept Development	X	X	X
		Solar and Lunar Eclipses	Concept Development	X	X	X
		Black Holes	Concept Development	X	X	X
	The Solar System and Beyond	Space Objects: Gravity and Motion	Concept Development	X	X	X
		Space Object Interaction Explorer	Concept Development	X	X	X
		Comets	Concept Development	X	X	X
		Make a Telescope: See the Moon	Concept Development	X	X	X
		Black Holes	Concept Development	X	X	X
		Star Types	Concept Development	X	X	X
		<i>Inner Solar System (coming soon)</i>	Concept Development	X	X	X
Structure and Function in Living Systems	Cell	Plants' Need for Photosynthesis	Experiment	X	X	X
		Exploring Cells with a Microscope	Concept Development	X	X	X
		Diagnose an Illness	Concept Development	X	X	X
		Factors Influencing Photosynthesis: Light Intensity	Experiment	X	X	X
		Agent Organelles	Concept Development	X	X	X
		Factors Influencing Photosynthesis: Temperature...	Experiment	X	X	X
		The Nucleus and Control of a Cell: Hammerling's...	Experiment	X	X	X
		Hammerling's Experiment with Cells	Experiment	X	X	X
		Comparing Plant and Animal Cells	Concept Development	X	X	X
		Reproduction	From One Cell to Two: Mitosis	Concept Development	X	X
	Bees, Flowers, and Pollination		Concept Development	X	X	X
	Making Sperm and Eggs: Meiosis		Concept Development	X	X	X
	Breeding Zebra Danio Fish: Introduction to Sexual		Concept Development	X	X	X
	Identifying Cancerous Cells		Concept Development	X	X	X
	Cancer Treatment		Concept Development	X	X	X
	Movement and Support	Muscles and Pinocchio's Arm	Concept Development	X	X	X
		Joints	Concept Development	X	X	X
		The Structure of Bones	Interactive 3D Model	X	X	X
	Circulation	Blood Typing and Transfusions	Concept Development	X	X	X
		Blood Circulation	Concept Development	X	X	X
	Respiration	Aerobic Respiration: What Produced Carbon Dioxide?	Experiment	X	X	X
		Aerobic Respiration of Plants	Experiment	X	X	X
	Food and Digestion	Balanced Diet	Concept Development	X	X	X
		Digestive System	Concept Development	X	X	X
	Regulation and Organization	Human Body Systems	Concept Development	X	X	X
		Dancing with the Bees: Animal Communication	Concept Development	X	X	X
		Nervous System	Concept Development	X	X	X
	Sensory Organs	Eye Structure and Problems	Concept Development	X	X	X
Hear with the Ear		Interactive 3D Model	X	X	X	
Vision and the Eye		Interactive 3D Model	X	X	X	
Heredity and Genetics	Genetics and Heredity	Find the Heir: Genetics Applied	Concept Development	X	X	X
		Mendels' Experiment	Experiment	X	X	X
		Genetic Inheritance in People	Concept Development	X	X	X
		DNA Structure	Concept Development	X	X	X
Evolution, Diversity, and Classification	Evolution and Adaptation	Natural Selection	Concept Development	X	X	X
		Life from Nonliving Things? Redi's Experiment	Experiment	X	X	X
		Spontaneous Generation: Pasteur's Experiment	Experiment	X	X	X
		Sorting and Identifying Animal Fossils	Concept Development	X	X	X
		Analysis of Fossil Evidence	Concept Development	X	X	X
		Evolution Facts and Misconceptions	Concept Development	X	X	X
		Biological Adaptation: A Study of Bird Beaks	Concept Development	X	X	X
		Diversity and Classification	Experiment	X	X	X
	Diversity and Classification	Function of Roots	Experiment	X	X	X
		Classification of Animals	Concept Development	X	X	X

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Ecosystems	Organisms and their Environment	Habitat Designer: Panda	Concept Development	X	X	X
		Environmental Factors that Affect the Growth of Moles	Experiment	X	X	X
		Habitat Designer: Sea Turtles	Concept Development	X	X	X
		Mutualism	Concept Development	X	X	X
		Commensalism	Concept Development	X	X	X
		Parasitism	Concept Development	X	X	X
	Energy Flow	The Energy Flow from Producer to Consumer	Concept Development	X	X	X
	Human Effects on Nature	Graphic Visualization of Air Pollution	Concept Development	X	X	X