

MCGRAW HILL AR CONTENT PROGRESSIONS FOR SCIENCE ACTIVITIES

Instructions altered for
lower grade bands

Original instructions can be
used for these grade bands

These grade bands may be
too advanced for this activity

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advanced for these grade bands

ACTIVITY	DESCRIPTION	SCIENCE K-2	SCIENCE 3-5	SCIENCE 6-8	SCIENCE 9-12
Simple Machines	Help the astronaut complete a mission by selecting the proper simple machine for the job.		✓	✓	
Bird Beak Bonanza	Explore different environments to learn how the shape of a bird's beak is suited to its food source and survival.		✓	✓	
Big Dig	Excavate fossils to uncover clues about ancient environments.		✓	✓	
Human Eye	See how the eye processes information, then dissect it to explore its parts.		✓	✓	✓
Animal Cell Lab	Dissect an animal cell and identify organelles by function.		✓	✓	✓
Circulatory System	Watch how blood carries nutrients and gases through the body, then dissect the system to explore the heart and vessels.		✓	✓	✓
Respiratory System	Watch how air flows through the body, then dissect the system to explore its parts.		✓	✓	✓
Glacier	Watch a glacier carve and shape the land, then click on glacial features to learn how they form.		✓	✓	✓
Photosynthesis	Watch plants turn light into energy, then dissect a plant cell to explore a leaf's cross-section.		✓	✓	✓
Fibonacci Forest	Find Fibonacci patterns hidden across the forest.		Modification: Only use in grades 4-5. May be too advanced for Gr. 3.	✓	✓

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ACTIVITY	DESCRIPTION	SCIENCE K-2	SCIENCE 3-5	SCIENCE 6-8	SCIENCE 9-12
Sonic Shapes	Use sound waves to create patterns using two different shaped plates.		Modification: Only use in Grades 4-5. The activity may be too advanced for Grade 3.	✓	✓
Seismic Shake	Build and test quake-proof structures on a shake table.		Modification: Use only in Grade 5. The activity may be too advanced for grades 3 and 4.	✓	✓
v8 Engine	See how a V8 engine transforms energy, then pull it apart to learn how each part powers motion.		Modification: Only use in Grade 5. The activity may be too advanced for Grades 3 and 4.	✓	✓
Fireworks Factory	Discover the chemistry that makes fireworks explode with color.		Modification: Only use in Grade 5. The activity may be too advanced for Grades 3 and 4.	✓	✓
Tornado Factory	Use simulator to create tornadoes and observe the impact they have on different environments.			✓	✓
Periodic Table	Learn how the periodic table is organized, then explore a town center to find elements using clues.			✓	✓
Law of Reflection	See how angles affect a ball's path, then test skills in mini golf using the law of reflection.			✓	✓
Electric Escape	Solve steampunk electrical puzzles to unlock the safe.			✓	✓