



Grades 1 – 3
Grades 4 – 5

Hands-on Science



It's Fun!

Nurture curiosity and STEAM mind

Fun and real science experiences stimulate your child's curiosity while teaching scientific methodologies.

- ✓ **A wide variety of subjects**, including biology, chemistry, environmental science, and physics.
- ✓ **Fully hands-on projects** are the best way to experiment in real science. Make, feel, watch, hear, and smell the science happening!
- ✓ **Multimodal instruction** ensures your child reads, makes, observes, talks, writes, and actively engages with the projects.

Grades 1-3 and grades 4-5 have a set of projects optimized for the groups.



Let's get the edge with STEAM Dojo

steamdojo.org

After this program

For grades 1 - 3, your child had many fun and exciting science experiments that stimulate curiosity and became familiar with key scientific terms and concepts.

For grades 4 - 5, your child enjoyed the hands-on science experiments and learned associated academics and scientific approaches.

Sample hands-on science projects

RISU has more projects and selects the projects optimizing the age groups, the venue, the season, and the class schedule.

Category	Project Title	1-3	4-5	Category	Project Title	1-3	4-5
Biology	Biomechanics of a hand	✓	✓	Physics	Water beads	✓	✓
	Germination process and key factors	✓	✓		Floating Compass, magnetism	✓	-
	Dominant Side of the Brain	✓	✓		Changing the Period of a Pendulum	✓	✓
	Camouflage	✓	✓		Hovercraft, how to eliminate the friction	-	✓
	Pineapple Enzyme	-	✓		Direction of magnetic field	✓	✓
	Reaction time	✓	✓		Rubber band car	-	✓
	How Plants Absorb Water	✓	-		The rollback can	✓	✓
	Germ on Hands, better hand-wash	✓	-		Electromagnet	-	✓
	Retinal Blind Spots	✓	✓		String phone, sound is vibration	✓	-
	How Animals Keep Warm	✓	-		Boomerang	-	✓
	Black and White makes color	✓	✓		Breadboard circuits	✓	✓
	Optical Illusion, what you see is illusion	✓	✓		Levers and momentum	✓	✓
	Bread and microorganism	✓	✓		Lemon battery	✓	✓
	Chemistry	Homemade Lava Lamp	-		✓	Refraction and density	-
Corrosiveness of Soda		✓	✓		Stethoscope	✓	-
How Rust Forms		-	✓		Airplane	-	✓
Make Your Own Slime		✓	✓		Catapult	✓	✓
Fishing for Ice cubes		✓	-		Simple mortar	-	✓
Elephant toothpaste		✓	✓		Simple telescope	✓	✓
Water ball, edible polymer		-	✓		Color of light (Spectroscope)	✓	✓
Soap gem rock, melting point		✓	✓		Electronic jerry fish	✓	✓
Combustion / oxidation / explosion		-	✓				
Liquid chromatography		✓	✓				
Oil and Water		✓	✓				
Film Canister Rocket	✓	-					
Environmental Science	Finding Iron In Breakfast Cereal	✓	-				
	The Movement of Air Molecules	✓	✓				
	Renewable Energy From Water	✓	-				
	Where Food Comes From	✓	✓				
	The Hydrologic Cycle	-	✓				
	Compost Ingredients	-	✓				
	The Best Insulating Cup	✓	✓				
	Types of mountains	✓	✓				
	How earthquakes happen	✓	✓				
	Heat Convection in liquid	-	✓				
Water treatment process	-	✓					