

Science: 3rd–5th Grade

Block 1: Matter & Chemistry

Week	Topic / Focus		Lab
Week 1	Properties of Matter		Density Discovery Stations
Week 2	States of Matter		Dry Ice Exploration (<i>teacher-led if available</i>)
Week 3	Mixtures & Solutions		Walking Water Chromatography
Week 4	Water Polarity & Cohesion		Drops on a Penny Investigation
Week 5	Atomic Structure		Build 3D Atom Models
Week 6	Chemical Reactions		Elephant Toothpaste Investigation
Week 7	Chemistry Review	Review	Escape Room Chemistry Challenge

Block 2: Water & Earth Science

Week	Topic / Focus		Lab
Week 1	Water Cohesion & Adhesion		Floating Needle Challenge
Week 2	Earth's Water Systems		Solar Distillation Challenge

Week 3	Atmospheric Moisture	Cloud in a Jar Investigation
Week 4	Sound Through Matter	Compare Sound Through Solids & Liquids
Week 5	Earth's Magnetic Field	Build an Electromagnet
Week 6	Weather Systems	Build Weather Instruments & Forecasting
Week 7	Heat Transfer	Lava Lamp Convection Lab



Block 3: Weather & Physics

Week	Topic / Focus	Lab
Week 1	Forecasting Weather	DIY Barometer Investigation
Week 2	Hurricanes & Tornadoes	Tornado Tube Investigation
Week 3	Speed & Motion	Ramp Speed Investigation
Week 4	Gravity & Acceleration	Rolling Ball Acceleration Lab
Week 5	Newton's First & Second Laws	Inertia Tower Challenge
Week 6	Newton's Third Law	Balloon-Powered Cars
Week 7	Circular Motion	Bucket Swing Investigation



Block 4: Physics & Space

Week	Topic / Focus	Lab
Week 1	General Theory of Relativity	Space-Time Fabric Investigation/ Modeling Space-Time Curvature
Week 2	Electricity & Atoms	Build an Electroscope & Simple Circuit- Electroscope Investigation
Week 3	Magnetic Fields	Iron Filings Magnetic Field Mapping
Week 4	Waves & Sound	Wave Behavior Lab- Build Pan Flutes & Measure Pitch
Week 5	Reflection & Refraction	Laser Reflection Maze & Prism Lab- Light Path Investigation
Week 6	Solar System & Stars	Sunspot Tracking & Scale Solar System
Week 7	STEM Engineering Expo	Multi-Station Physics-STEM Challenge