



Grade 3: Mini Lab Boxes

Please choose one Mini-Lab for your field trip.

Physical Science

Mini-Lab #1: Motion, Forces and Magnetism

Students explore the forces of magnetism and gravity using magnets. Building on their experiences with magnetic force, students explore other pushes and pulls, considering strength and direction and are introduced to the effects of balanced and unbalanced forces.

Projects Include: Rolling Car, Electromagnetic Force Fields, Magnet Stones.

Mini-Lab #2: Energy Release:

Students perform experiments with natural and artificial forms of energy. Your students will come to understand the differences between convection, conduction, and radiation. They will also discover the differences between insulators and conductors.

Projects Include: LED Throwies, Hand Warmer, Liquid Light.

Mini Lab#3: Mixtures:

Students build on the science concepts of matter and its interactions. They make mixtures and solutions to develop a foundational understanding of conservation of mass, and they observe a simple chemical reaction to extend their understanding of conservation.

Projects Include: Heat Sensitive Worms, Hollywood Slime, Non-Newtonian Goo.

Mini Lab #4: Engineering Challenge:

Students tackle an engineering design challenge using the scientific method. They use their knowledge of science to enter the engineering design process and, through this process, refine their science understanding.

Projects Include: Marshmallow Structure, Build a Catapult, and Helicopter Challenge.