Physical Science Kits

Fabric - K - Students explore fabrics as common materials in their everyday environment. They investigate fabric properties and move on to fabric interactions, which include getting cloth dirty and cleaning it, dying fabric, and making something out of it.

Wood and Paper - K - Students observe and describe properties of different kinds of wood and paper. They compare different kinds of wood and paper to discover how they are alike and how they are different, and they observe interactions of wood and paper with water and other substances. They will become aware of natural resources in our world.

Balance and Motion - 1st - Students put the world into motion in this module. They will balance cardboard shapes and pencils, investigating motion with tops, zoomers, whirlers, and study wheel-and-axel systems and rolling cups.

Solids and Liquids - 1st or 2nd - Students investigate, observe, and describe the properties of solids and liquids. Students sort materials according to properties, combine and separate solids of different particle sizes, and observe what happens when solids and liquids are mixed.

Physics of Sound - 3rd or 4th - Students discriminate between sounds generated by dropped objects, how sounds can be made louder or softer and higher and lower, how sounds travel through a variety of materials, and how sounds get from a source to a receiver. Students use their knowledge of the physics of sound to solve simple sound challenges.

Magnetism and Electricity - 4th - Watch the light bulb of discovery click on when young scientists study the concepts of magnetism and electricity. Students build telegraphs, develop a code, and use their inventions for classroom communications.

Mixtures and Solutions - 5th - Students learn fundamental ideas of chemistry: mixture, solution, concentration, saturation, and reaction.

Levers and Pulleys - 5th - Understanding simple machines, and what they reveal about the relationships between effort and the work produced is essential to understanding complex machines. Students grapple with this idea through the investigations in this module, which encourage them to create two simple machines: levers and pulleys.