

Award-winning Science Kits and Curriculum

Grades
K-6

Kits can be completed individually or used in series as a continuous curriculum!

On-line
Clubhouse
for further
exploration!



The Young
Scientists Club®

An educational science adventure
that lasts a lifetime.

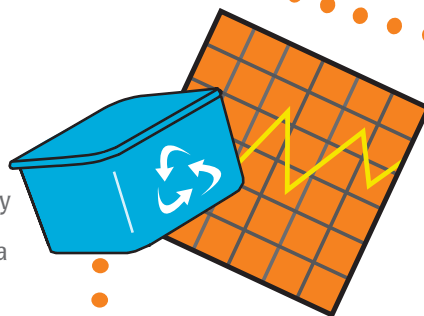


WINNER! The National Parenting Center Seal of Approval • **WINNER!** Learning Research Institute Outstanding Resource Award
WINNER! National Parenting Publications Honors Awards (NAPPA) • **WINNER!** Learning Magazine 2004 Teachers' Choice Award • **WINNER!** iParenting Award

Kit 1: Recycling

SS-925-1101

Young Scientists are introduced to the 3 R's (reduce, reuse, and recycle) by making mini-composters and different kinds of paper from old paper to use as labels on recycling bins. These creative and fun experiments are a great introduction to the world of science.



Pre-Sorted
Supply
Bags!



Kit 2



Kit 3: Magnets

SS-925-1103

A great introduction to the science of magnetism. Young Scientists make magnets dance and "magically" move cars while learning about attraction versus repulsion, North versus South poles, and magnetic materials versus non-magnetic materials. Students finish the kit by making their own compass!

Kit 4: Weather

SS-925-1104

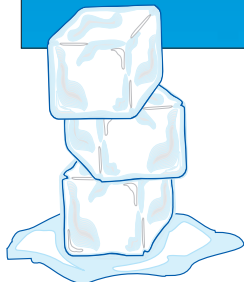
Students learn about the weather by making a wind vane to study wind direction, a thermometer to study temperature, a barometer to study change in air pressure, and a rain gauge to measure rainfall. Young Scientists become meteorologists by making their own weather station.



Kit 2: Scientific Measurements

SS-925-1102

Students learn about the importance of the metric system by measuring and graphing expanding foam capsules, melting ice towers, and growing beans and wheat seeds. These exciting experiments will get all Young Scientists hooked.



Kit 5: Solids, Liquids, and Gases

SS-925-1105

Young Scientists study the three phases of matter by mixing solids and liquids to create gas, a bouncy ball, and goop. These fun experiments will excite any budding scientist.



Kit 6: Volcanoes

SS-925-1106

Students learn about the properties of volcanoes by building a simple volcano and mixing the proper chemicals to make it erupt. This will be an experiment that Young Scientists will want to repeat again and again!



Kit 7: Minerals

SS-925-1107

In this kit Young Scientists become geologists and study the properties of minerals by using the streak test, hardness test, acid test, and magnetic test to identify five unknown minerals. A great introduction to real field science.

Kit 8: Crystals

SS-925-1108

Students learn about crystals by growing a salt rock garden, rock candy, and string crystals. This kit is completed with a "bang" when Young Scientists break open real geodes and find beautiful crystals inside.

Kit 9: Fossils

SS-925-1109

Young Scientists study fossils by making both cast and mold fossils of bugs and by examining the enclosed plant fossil replica. This kit is a great introduction to the fascinating field of paleontology.

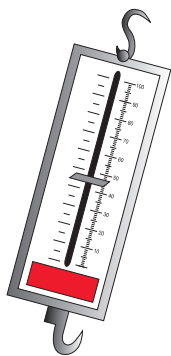


Kit 10

Kit 10: Bacteria and Fungi

SS-925-1110

Young Scientists of all ages will be fascinated by growing bacteria and fungi of all colors and textures in Petri dishes. They will discover how antibiotics cure disease. Students finish the kit by "waking" the common fungus called yeast.



Kit 11: Weight and Volume

SS-925-1111

In this kit, students learn about weight by making and calibrating their own spring scale. Students then learn about volume using a metric-calibrated graduated cylinder. The concepts of weight and volume are combined to study density by making a peppercorn "magically" float.

Kit 12



Kit 12: Acids and Bases

SS-925-1112

Students learn about acids and bases by testing various substances with pH and litmus paper. In addition, the effects of acids on various items around us are studied (e.g. dirty coins and rain). This kit finishes with some real copper plating. A great introduction to chemistry.



Kit 13: Water

SS-925-1113

Young Scientists learn about the different properties of water by dissolving substances in water, creating an iceberg, and making a siphon. The highlight of this kit is when the students make a submarine out of a soda can and learn how a submarine dives and rises.

Kit 14: Capillary Action

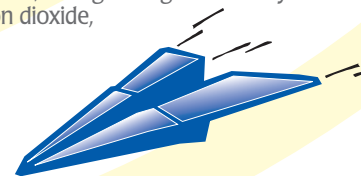
SS-925-1114

The fascinating property of water called capillary action is studied by watching color dyes of candies crawl on chromatography paper and by observing colored water moving in plants. To have water travel up against gravity, students use a capillary tube like health care workers use in hospitals.

Kit 15: Air

SS-925-1115

Young Scientists learn about the fun properties of air by performing lots of "tricks" such as shrinking a soda bottle, moving a snake, expanding a dented ping-pong ball, collapsing a juice box, extinguishing a candle by both depleting oxygen and adding carbon dioxide, and lots more!



Kit 16: Flight

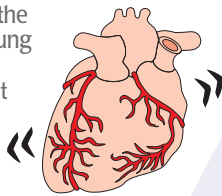
SS-925-1116

This kit focuses on moving air. Young Scientists make planes, parachutes, balloon jets, windmills, and spinners. The air of experimentation will be filled with lots of excitement and flying objects!

Kit 17: Heart and Lungs

SS-925-1117

Young Scientists learn about the basic anatomy of the circulatory and respiratory systems by measuring lung volume, making heart and lung models, and designing a working stethoscope. This kit is a great introduction to the world of human physiology.



Kit 18: Digestive System

SS-925-1118

Students study the different parts and functions of the digestive system by observing the enzyme pepsin eat away gelatin, making iodine color starch molecules, and by having fats make brown paper translucent. This kit is also a first introduction to the differences between starch, protein, and fats.



Kit 19: Bones and Muscles

SS-925-1119

In this exciting kit, students learn about the mechanics, importance, and make-up of bones and muscles by studying and recreating an X-ray, making hinge and ball-and-socket joints, and by making a leg model with bones and muscles. This kit concludes by students identifying common bones and muscles.

Kit 20: Senses

SS-925-1120

Students study the five senses (touch, smell, taste) by stimulating hot and cold touch receptors, smelling and mapping taste buds on the tongue, mimicking the vocal cords, and dilating the pupils. The senses of all Young Scientists will surely be stimulated by this kit.



Kit 21: Light

SS-925-1121

The intriguing topic of light is studied by using a prism, making shadows, and constructing a spinning color wheel. Young Scientists will also enjoy creating optical illusions. A great introduction to the field of physics.

Kit 22: Mirrors

SS-925-1122

Mirrors are found everywhere. Students will learn about convex mirrors, concave mirrors, and reflections. After learning the mysteries of mirrors, Young Scientists will make a secret code and perform a mirror trick.

Kit 23: Electricity

SS-925-1123

A great introduction to electricity. The basics of electricity are taught using balloons, batteries, and wires. Insulators, conductors, light bulbs, and light bulb holders are used to design circuits and an on-off switch. This kit is a real electrifying experience!

Kit 24: Circuits and Electromagnets

SS-925-1124

This kit expands on what was learned in Kit 23. Students use their knowledge of electricity to make an electromagnet and a circuit maze. Young Scientists will complete this kit with a self-designed one-eyed monster!

Kit 25: Magnetism

SS-925-1125

Young Scientists shape magnetic fields using iron filings, float ceramic ring magnets, and study a real lodestone. Students will be thrilled to finish this kit by making their own magna doodle.

Kit 26: Static Electricity

SS-925-1126

Students will create real lightning sparks, bend water, make cereal jump, have a hair rising experience, and make balloons stick. Sparks will be flying when Young Scientists explore static electricity with this fascinating kit.



Kit 27: Tornadoes, Clouds, and Water Cycle

SS-925-1127

Students learn about tornadoes, clouds, evaporation, condensation, and precipitation with experiments such as creating clouds in a jar and recreating the water cycle. Young Scientists will be captivated when they finish this kit with a tornado in a bottle.

Kit 28: Seeds, Fruits, and other Plant Parts

SS-925-1128

This kit introduces students to the anatomy of seeds, fruits, and plants by dissecting, eating, and labeling them. Young Scientists use their knowledge to create a terrarium with the enclosed selection of seeds.



Kit 29: Eggs

SS-925-1129

Young Scientists will learn about the different properties of chicken eggs and use these properties to review the concepts of sinking, floating, gases, acids, and osmosis. At the conclusion of this kit, students will create a real brine shrimp habitat and learn how to take care of their new "pets" and study the cycle of life!

Kit 30: Owls

SS-925-1130

Students will learn all about food chains and food webs. Finish this kit with the dissection of an owl pellet and assemble a rodent skeleton using the bones found in the pellet. This is an awesome experience for all Young Scientists.



Kit 31: Stars

SS-925-1131

Students will study the stars with a star fact book, make a constellation box, build a simple telescope, and construct a night-vision flashlight. Young Scientists will now have all the tools to be an astronomer and go star-gazing using the enclosed star chart!

Kit 32



Kit 32: Planets

SS-925-1132

Students learn about the properties of planets by making a planet fact book and a planet poster. The grand finale of this kit is when Young Scientists use bouncy balls and planet facts to create a solar system mobile that will "enlighten" any room.



Kit 33: Forces

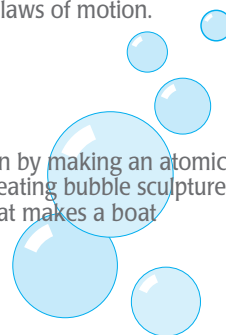
SS-925-1133

Young Scientists learn about the different types of forces and the effects these forces have on various objects by performing experiments involving gravity, momentum, and centrifugal force. An exciting way to introduce Newton's three laws of motion.

Kit 34: Surface Tension

SS-925-1134

In this kit students learn about surface tension by making an atomic model of water, making pepper jump, and creating bubble sculptures. Young Scientists finish with an experiment that makes a boat "magically" glide across the water.



Kit 35: Polymers

SS-925-1135

Young Scientists will get a fascinating introduction to polymers when they make molecular models, shrink peanuts, and extract polymers out of diapers. This kit finishes with students using their new found knowledge to make gel and slime.

Kit 36: Famous Scientists and Their Experiments


SS-925-1136

In this kit, students recreate the experiments of famous scientists. They will make a Cartesian Diver, Galileo's Pendulum, and do various experiments to study Archimedes' and Bernoulli's Principles. Young Scientists will be inspired by these famous scientists and may even become one themselves.



Kits contain pre-sorted supply bags with all materials needed for experiments (except for some common household items) and large instruction manuals with a teacher section followed by student instructions given by "Celsius the Science Bug"!




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An educational science adventure that lasts a lifetime.

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