

Grab-n-Go Kits

Now available at the CCE Office, 3 Murray Hill Drive, Mt. Morris, NY 14510

Each kits contains a curriculum guide outlining 6 hours of project-related activities, essential tools, and a shopping list. To reserve a kit, contact Renee at rh445@cornell.edu or 585-991-5420 | 585-335-1752.

| Kit Name and Description | Project Area | Recommended Grades | Refundable Deposit |
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| <p><u>Rockets to the Rescue</u> Can you build a rocket that can travel a distance and carry a payload of food safely to its target? Borrow this kit and find out. Youth will learn engineering concepts, develop math skills, and learn about nutrition while helping to solve a relevant global issue.</p> | Science & Technology | Grades 4+ Can be adapted for younger youth | \$5 |
| <p><u>Junk Drawer Robotics</u> Youth are challenged to build robots from everyday items. Concepts covered include pneumatics, arm designs, and 3-D space. Big ideas include form and function, scientific habits of mind, and engineering design. The kit contains tools and supplies to accompany the Facilitator and Youth Guides.</p> | Robotics | Grades 4-12 | \$5 |
| <p><u>Nature Detectives</u> From the Cornell Lab of Ornithology: Kit offers fun and easy science activities that incorporate science and nature into daily life and encourages kids to explore the world right outside their door. This kit will keep your 4-Hers engaged and active, while still building essential skills in areas such as:</p> <ul style="list-style-type: none"> • Science Process: Questioning, observing, collecting and graphing data, making predictions, and critical thinking • Interpersonal Communication: Collaborating in groups, sharing thoughts and perspectives, defending ideas and opinions • Creativity: Sketching, designing, building | Environmental Education | Grades 3-8 Can be adapted for other ages | \$5 |
| <p><u>Felting</u> This kit has what you need to get started exploring the fascinating world of fibers and felting. Learn about the science of felting and try your hand at many of the techniques. There are instructions and materials that will introduce you to needle felting, wet felting, with activity suggestions and directions. Natural and colored wool fibers are available for purchase to use with your club or independent members.</p> | Clothing & Textiles | Can be used with youth of all ages. Younger children need supervision, as needles are sharp | \$5 Sample bag of fibers available for \$3 each |

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| <p><u>The Magic of Electricity</u> This kit contains the hands-on materials used to study electrical circuits, magnetism, and electromagnetism using the curriculum <i>Magic of Electricity, Volume 1</i>. Youth will make series and parallel circuits, create an electromagnet, build a galvanometer, and make a working electric motor. Material kits are designed to accommodate up to five (5) groups of students.</p> | <p>Electronics</p> | <p>Grades 4-5 Can be adapted for younger and older youth</p> | <p>\$5</p> |
| <p><u>The Power of Wind</u> This kit includes all the basic and not-so-common materials for the <i>Power of the Wind</i> curriculum. This comprehensive kit contains materials for youth to practice engineering skills to construct wind powered machines and various wind turbines. Youth use their turbine designs to lift a load and produce electricity. Youth learn how generators work using motors and multimeters. Material kits are designed to accommodate up to five (5) groups of students.</p> | <p>Sustainable & Renewable Energy</p> | <p>Grades 6-8 Can be adapted for older youth</p> | <p>\$5</p> |
| <p><u>In-Touch Science: Foods & Fabrics</u> Scrape fibers from a pineapple leaf, create dye from natural foods, and create chemical reactions with familiar kitchen ingredients. Ten hands-on experiments investigate how foods & fabrics are related. Perfect for budding scientists who like working with their hands and enjoy the process of discovering new things.</p> | <p>Science & Technology</p> | <p>Grades 3-5 Can be adapted for younger or older participants</p> | <p>\$5</p> |
| <p><u>In-Touch Science: Plants & Engineering</u> Can you protect an egg from breaking? Create a structure from pasta and marshmallows that holds pennies? Pull different colors through plant stems? These 10 hands-on experiments help youth explore the world around them and make connections between plants and engineering.</p> | <p>Science & Technology</p> | <p>Grades 3-5 Can be adapted for younger or older participants</p> | <p>\$5</p> |
| <p><u>Woodworking – Measuring Up</u> Youth will develop skills such as measuring, squaring, driving nails, and using clamps and screws. It is suggested that all youth begin with this guide to be grounded in the basics of woodworking. Precut, ready to assemble kits can be ordered to use with this curriculum. Contact Renee at rh445@cornell.edu.</p> | <p>Wood Science and Industrial Arts</p> | <p>Grades 3-5</p> | <p>\$5</p> |
| <p><u>Cake Decorating - Beginner Level</u> Learn to make icing with the right consistency, use a pastry bag and a variety of tips for different effects, and bake the perfect cake. Then you're all set to create your own designs and wow your family and friends!</p> | <p>Food & Nutrition</p> | <p>Grades 4+ Can be adapted for younger participants</p> | <p>\$5</p> |

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| <p><u>Tin Punch</u> A favorite for youth of all ages. The kit contains all the tools you need to create creative tin punch 3 different ways - including faux tin punch, 2 dimensions and even 3 dimensional luminaries.</p> | Arts & Crafts | Can be adapted for all ages | \$5 |
| <p><u>Pyrography (Wood Burning)</u> This is the process of creating art by burning designs into wood. The kit includes wood burning tools, gloves, safety glasses, practice wood and basic instructions.</p> | Arts & Crafts | Ages 12+ | \$5 |
| <p><u>Plant Identification</u> Learn concepts and skills necessary to identify plants. Twelve lessons and materials help youth learn important characteristics for identifying deciduous trees and shrubs.</p> | Plants | Grades 3+ | \$5 |
| <p><u>Science Fun with Physics</u> Explore concepts in physics with hands-on, engaging experiments using supplies and materials from your own kitchen. Supplement the kit contents with supplies from your home.</p> | Science & Technology | Grades 3+ | \$5 |
| <p><u>Teaming with Insects</u> Gear up to explore your natural habitat in search of insect life. Curriculum and materials encourage hands-on learning the whole way through!</p> | Insects | All Ages | \$5 |
| <p><u>Kitchen Chemistry</u> Explore concepts in chemistry with hands-on, engaging experiments using supplies and materials from your own kitchen. Supplement the kit contents with supplies from your home.</p> | Science & Technology | Grades 3+ | \$5 |
| <p><u>Crime & Spy Detectives</u> Investigate the science behind detective work. Kit comes with curriculum including 6 activities to create a spy kit, reveal hidden messages, collect and study fingerprints and more.</p> | Science & Technology | Can be adapted for all ages | \$5 |