



Igniting Imaginations...Fueling Discovery...Sparking Success

Optimize Student Potential with iSPACE Educational Programs

As educators, we're always looking for fun and creative ways to engage and inspire each student. iSPACE can provide exciting hands-on experiences that focus on empowering students with 21st century and STEM (Science, Technology, Engineering and Mathematics) learning skills as well as career awareness.

iSPACE Educational Benefits

- ★ Promotes critical thinking, teamwork and creative problem solving
- ★ Creates inquiry-based opportunities for students to apply STEM skills
- ★ Provides an understanding and encourages pursuit of STEM careers
- ★ Aligns with National Science Education and State (OH, KY and IN) Standards
- ★ Developed and led by professional educators

Programs	Grades	Pre-K	K	1	2	3	4	5	6	7	8	9	10	11	12
LEGO DUPLO "Not So Simple" Machines															
Roamer Robots															
SOUNDS Like Fun to Me															
BUBBLE-OLOGY															
Magnificent Magnets															
Fun with Fizz															
Blast-Off (Paper or Model Rocketry)															
Space Explorers															
Fossils Among Us															
Scout Badge Programs															
LEGO WeDo Robotics															
LEGO Engineer-It															
Peculiar Polymers															
Race Car Physics															
There's More to Light Than Meets the Eye															
Wings, Rings and Other Flying Things															
LEGO RCX Mindstorm Robots															
Robo-Art															
Spaceship Earth - An Environmental Exploration															
LEGO NXT Robots															
iMISSION:STS (Spaceflight Training Simulation)															



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For a complete list of programs, please visit our website at www.ispacescience.org

Examples of iSPACE programs include:

LEGO WeDo Robotics - Get ready for a safari full of LEGO adventure. Build LEGO models that “come to life” when you program them on a computer. LEGO WeDo model options include a lion that roars and snores, an alligator that chomps, a monkey that drums out a variety of rhythms, twirling birds and more.

LEGO Mindstorm (RCX or NXT Robots) - Will robots replace astronauts in space? What about jobs here on Earth? Come see what types of robots are being used by NASA in space exploration as well as robots that impact our lives every day on Earth. Build and/or program an autonomous LEGO Mindstorm robot rover and teach it “to think” by using sensors in order to master some space-faring roverbot challenges.

LEGO DUPLO “Not So Simple” Machines - Young LEGO-Maniacs will enjoy building and designing some crazy, mighty machines that will help them explore and understand concepts associated with simple and compound machines.

LEGO Engineer-It - Get in gear as you build machines using gears, pulleys, levers, wheels/axles and much more. Students will investigate the principles of simple machines, mechanisms, and structures as they work in teams to build simple and compound machines using LEGO® Mechanisms kits. Model options include: land yachts, free-wheeler, puppy, and more. Extend your engineering skills with the LEGO Motorized Mechanisms or Hydraulics/Pneumatics programs.

Space Explorers - Find out what it takes to live and work in space as we answer the following questions using fun, hands-on activities. What do astronauts eat in space? How does a spacesuit work? What are the hazards associated with extravehicular activities (EVA) and long-term space travel? Let the countdown to fun begin!

Blast Off (Paper Rocketry) - Blast off with Sir Isaac Newton and explore his three laws of motion through rocketry activities. Investigate the aerodynamics of launch vehicles while building and launching your own paper rocket with some specially designed high powered air launchers. Guaranteed to be a BLAST!

iMISSION: STS (Spaceflight Training Simulation)* - Get on board with the iSPACE flight crew in a simulated space mission. Participants will be immersed into the role of an astronaut or a space scientist and will be challenged to apply STEM skills in a fun, unique and challenging way. Sign up for a space mission today! * Only available at the iSPACE facility.

iSPACE offers a variety of programs for schools (Pre-K through high school), after-school, homeschool, youth groups and families as well as summer day camps and *FIRST* Robotics events.

Professional development workshops and meetings are also available for education professionals.



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www.ispacescience.org