

Activities by Title

TITLE	TIME (minutes)	CONTENT	RELATED EXHIBITS	AGE RANGE
Balloon Rockets	10 to 20	Force Friction Newton's Laws Pressure Thrust	Feel the Friction	4 to 11 (Grades K – 6)
Cartesian Divers	5 to 10	Ballast Buoyancy Density Gravity Pressure Volume	Up, Up and Away! Hovercraft	5 to 13 (Grades K - 8)
Combustion Engine	10 to 15	Chemistry Combustion Kinetic Energy Potential Energy Pressure Work	Start Your Engines!	10 and up (Grades 5-12+)
Floating Magnets	5	Attract Force Magnetism North/South Pole Repel	MagLev	4 to 11 (Grades K – 6)
Friction	5	Static Friction Kinetic Friction Force Newton's Laws	All Exhibits	4 to 11 (Grades K – 6)
Fun with Bernoulli	5	Bernoulli Principle Force Lift Pressure	Wing Thing Set Sail	7 to 11 (Grades 2 – 6)

Activities by Title continued...

TITLE	TIME (minutes)	CONTENT	RELATED EXHIBITS	AGE RANGE
Giant Lever Demonstration	10 to 15	Advantage Force Gravity Machines Mechanical Simple Work	Give It A Lift Earthmovers	8 and up (Grades 3 – 12+)
Hydraulic/Pneumatic Robot Arm	5 to 10 Extension 25+	Design & Engineering Force Hydraulic Pneumatic Pressure Robotics	Give It A Lift Earthmovers Air Tubes	8 and up (Grades 3 – 12+) 11 and up (Grades 5 – 12+)
Load 'Em Up	5 to 30	Buoyancy Density Force Pressure	Set Sail Feel the Friction	4 to 13 (Grades Pre-K – 8)
Making an Electromagnet	10 to 20	Current Electricity Electromagnet Magnetic Field Magnetism	MagLev	4 to 11 (Grades K - 6)
Mini-hovercraft	5 to 10	Force Friction Pressure	Hovercraft	5 to 12 (Grades 1 – 7)
Paddle Boat	10 to 30	Buoyancy Design & Engineering Energy Force Friction Newton's Laws	Set Sail Feel the Friction Wing Thing	6 to 13 (Grades K – 8)

Activities by Title continued...

TITLE	TIME (minutes)	CONTENT	RELATED EXHIBITS	AGE RANGE
Square and Other Shaped Wheels	10	Geometry Simple Machines Wheels	Feel the Friction	6 to 11 (Grades K – 6)
Water Rockets	10 to 20	Drag Force Newton's Laws Pressure Thrust		4 to 14 (Grades K – 9)