



Where Kids Can Be Kids



On-site Field Trips



## Simple Machines

**Age Level 10-13**

### Level 1

Explore why simple machines are extremely important and how they can make your work easier. Through hands-on demonstrations, uncover the magic of simple machines and prove their simple concepts of work, force and energy inspiring all the complex machines of today. Then dive into why incline planes and screws are important. Work through problem-based scenarios where you have to use incline planes and screws to map a plan to solve a problem. Then build the solution and test.

### Level 2

Explore why wedges and levers are important and how they can make your work easier. Work through problem-based scenarios where you have to use wedges and levers to map a plan to solve a problem. Then build the solution and test.

### Level 3

Explore why pulleys are important and how they can make your work easier. Work through problem-based scenarios where you have to use one or more simple machines to map a plan to solve a problem. Then build the solution and test. Create a how-to-video using one simple machine of your choice.