



# Simple Machines

**90-minute Program \* Best suited for grade 7**  
**Science Standards: 7.P.2**

*Schools in New Hanover County: \$4 per student*  
*Schools outside New Hanover County: \$7 per student*

## **DISCOVER THE POWER OF SIMPLE MACHINES!**

Hoist an adult into the air with ease, match the strength of someone much larger than you, and explore museum exhibits in a simple machines scavenger hunt! In this exciting program filled with interactive demonstrations, hands-on activities, and engaging experiments, students discover how simple machines help us accomplish work.

## **PROGRAM ACTIVITIES INCLUDE:**

### **THE “PLANE” TRUTH**

Investigate the simplest of simple machines to determine how an inclined plane or a wedge can be used to reduce the amount of effort applied to a task. Apply that knowledge in an exciting race!

### **THE CLEVER LEVER**

Discover how a six-foot board and a small block of wood, when properly combined, allow a seemingly impossible feat to be accomplished with ease.

### **WORKING THREADS**

Uncover two simple machines hidden within a screw and find out how each one enables work to be accomplished.

### **WHEELS IN MOTION**

Explore the relationship between distance and force using a device invented by the ancient Babylonians. This interactive demonstration will prove to be a “moving” experience!

### **POWERFUL PULLEYS**

Analyze different pulley systems to determine their effectiveness in helping people lift heavy objects. Test these systems for a surprising result.

### **GEARED UP**

Experiment with gear sets to discover how this special form of lever can be used to gain force or speed.

**Call 910.798.4362 or email [cfmprograms@nhcgov.com](mailto:cfmprograms@nhcgov.com) to schedule your field trip!**



**814 Market Street • Wilmington, NC 28401**  
**[www.capefearmuseum.com](http://www.capefearmuseum.com)**