

# Simple Machines

-with Bill Nye

Name: \_\_\_\_\_

1. Make a list of the simple machine discussed in the video and the names of specific devices or machines based on these.

Simple Machines:	Names of machines based on these:

2. What is a fulcrum and what type of simple machine has one?

3. What simple machine is the wheel based on? What do we call the “fulcrum” of a wheel?

4. A ramp or inclined plane can make lifting something or climbing a certain height easier (use less force). But there is a trade off. What is it?

**5. What simple machine is a the screw built on? What famous person has been credited with inventing the screw or auger?**

**6. How can knowledge of simple machines be used to help someone who has lost an arm or a leg?**

**7. When you us a group of pulleys, you can make lifting something very heavy easier. But there is a trade off. What is it?**