

## Video guide for Bill Nye Simple Machines

NAME: \_\_\_\_\_ PERIOD: \_\_\_\_\_

1. What is the job of a lever?
2. What is the fulcrum of a lever?
3. What must you do in order to throw an object farther with a catapult?
4. What are gears? Why would I use a lower gear to up a hill and a higher gear to go down a hill? Hint: think about the size of the gears in the front and back
5. What is a spiral staircase like? Why?
6. Your arm uses what type (s) of simple machines in order to function? Think about the prosthetic arm in the video.
7. How could you make a pulley system where you would use less force to do the same amount of work?
8. What types of simple machines are in a roller coaster and how do they work or help?
9. List 5 items that you will use today that are simple machines and what type of simple machine are they?