## Video guide for Bill Nye Simple Machines

| NA | AME: PERIOD:   |
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| 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?  |
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| 9. | List 5 items that you will use today that are simple machines and what type of simple machine are they?  |