Bill Nye -Simple Machines
Circle the word (and write it in the blank) that **best** completes the sentence or answers the question from the video .

1. Wheels, pulleys, ramps, and \_\_\_\_\_\_\_\_\_\_\_\_ all help make our work easier, they are all simple machines.

Phones/Rope/Hands/Cars

2. Leavers allow us to change the size and \_\_\_\_\_\_\_\_\_\_\_\_\_ of forces

Direction/Speed/Shape/Volume

3.  During the try this portion they explain that making a lever or catapult at home is easy and that it has two ends and a pivot point that touches the table called a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

Rod/Middle/Fulcrum/Spoon

4. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_are like a ramp and a ladder combined.

Hill/Escalator/Elevator/Stairs

5. A \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is a ramp wrapped around a rod (or stick).

Staircase/Nail/Rivet/Screw

6. During the way cool scientist part the doctor (Ramona Okumura) specializes in helping people with \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_         \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

(Joints & Bones) (Mouth & Throat) (Ear & Nose) (Prosthetics & Orthotics)

7. Cranes use the following simple machines to lift heavy objects \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

Ramps/Pulleys/Wedges/Screws

8.  During the check it out segment they are all on a \_\_\_\_\_\_\_\_\_\_\_\_\_\_ using simple machines.

Car/Train/Boat/Plane

9. Bill wins the Tour De Science race and the main reason he gives for winning is   \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

10.   What is needed to make a lever? **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

11. In your own words explain what a simple machine is. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

12. List 4 different simple machines. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

***Answer Key***

Bill Nye -Simple Machines  S1E10
Circle the word (and write it in the blank) that best completes the sentence or answers the question from the video .

1. Wheels, pulleys, ramps, and \_\_\_\_\_\_\_\_\_\_\_\_ all help make our work easier, they are all simple machines.

Phones***Rope***HandsCars

2. Leavers allow us to change the size and \_\_\_\_\_\_\_\_\_\_\_\_\_ of forces

***Direction***SpeedShapeVolume

3.  During the try this portion they explain that making a lever or catapult at home is easy and that it has two ends and a pivot point that touches the table called a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

RodMiddle **Fulcrum**Spoon

4. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_are like a ramp and a ladder combined.

HillEscalatorElevator  ***Stairs***

5. A \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is a ramp wrapped around a rod (or stick).

StaircaseNailRivet ***Screw***

6. During the way cool scientist part the doctor (Ramona Okumura) specializes in helping people with \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_         \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

Joints & bonesMouth & throatEar & nose***Prosthetics & Orthotics***

7. Cranes use the following simple machines to lift heavy objects \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

Ramps***Pulleys***WedgesScrews

8.  During the check it out segment they are all on a \_\_\_\_\_\_\_\_\_\_\_\_\_\_ using simple machines.

Car TrainBoat***Plane***

9. Bill wins the Tour De Science race and the main reason he gives for winning is   \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

Gear ratio***It's my show***I hung back there  and waited to make a move

10.   What is needed to make a lever? ***A fulcrum, a pivot, or a place to turn around, a stick and a fulcrum and you got a lever.***

11. In your own words explain what a simple machine is. ***Answers will vary***

12. List 4 different simple machines. ***Wheel, lever, Inclined plane, pulley, wedge, screw (you may accept examples of these)***