

I'm not robot!

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Name \_\_\_\_\_ Class period \_\_\_\_\_

**Bill Nye - Simple Machines: STE10 video follow along.**

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.

Phone    Rope    Hand    Car

2. Levers 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 \_\_\_\_\_.

Red    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 (Kawana Okiyama) 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 or Legent they are all on a \_\_\_\_\_ using simple machines.

Car    Train    Boat    Plane

9. Bill wins the Sour 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?

11. In your own word explain what a simple machine is.

12. List 4 different simple machines.

## Simple Machines

1. A flagpole is an example of what kind of simple machine?



- A. wedge
- B. pulley
- C. incline plane
- D. wheel and axle

2. What type of simple machine is the bottle opener?



- A. lever
- B. pulley
- C. wheel and axle
- D. inclined plane

3. What type of simple machine is this?



- A. Inclined Plane
- B. Wheel and Axle
- C. Screw
- D. Pulley

4. What type of simple machines are these?



- A. Wedge
- B. pulley
- C. incline plane
- D. wheel and axle

5. What kind of simple machinery can we find on a bike?



- A. Inclined Plane
- B. Wheel and Axle
- C. Screw
- D. Pulley

6. What are two parts of a pulley?

- A. A wheel
- B. A rope
- C. A rope and Wheel
- D. A level

7. What happens when you push down on one end of a lever?

- A. The other end moves down too.
- B. The other end moves up.

8. What was the author's purpose for writing Simple Machines?

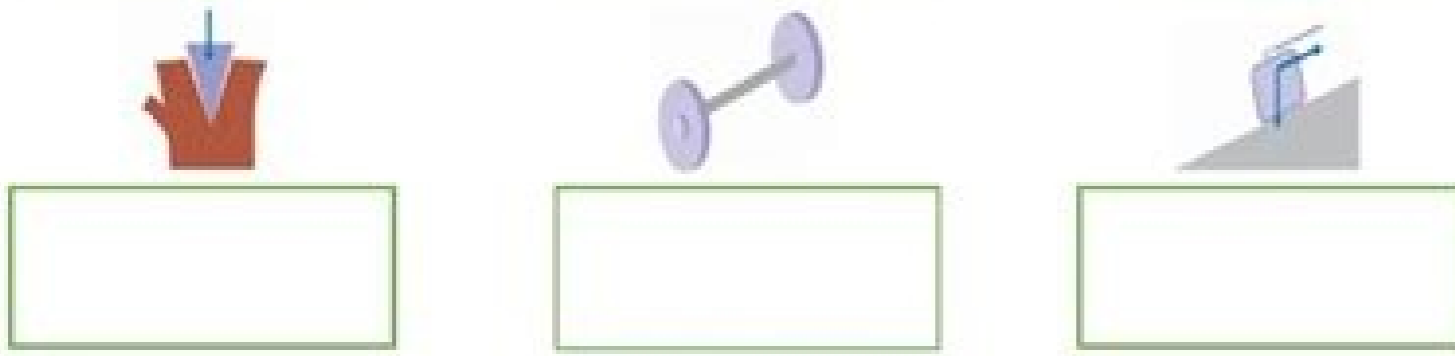
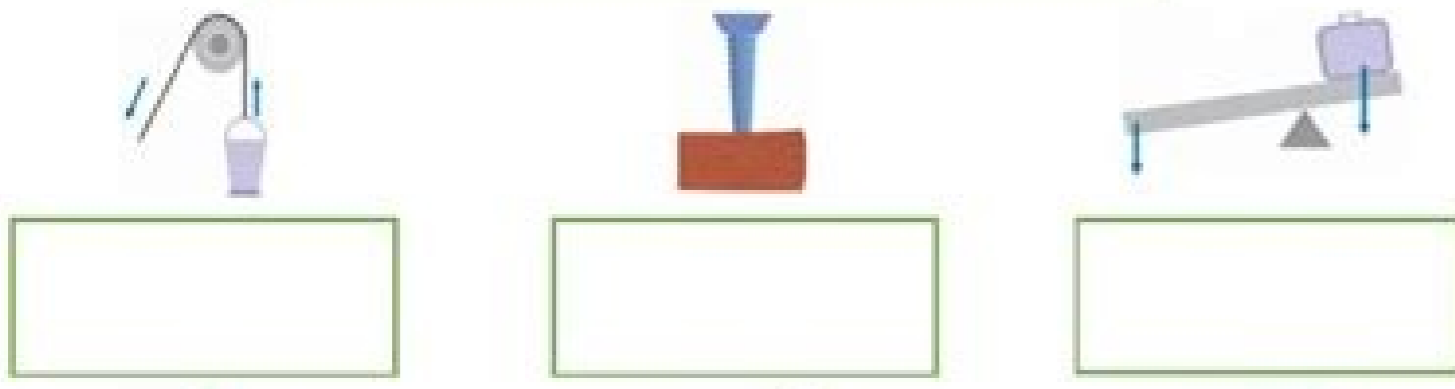
- A. the author wanted to make us laugh at the simple machines.
- B. the author wanted to inform people about simple machines.

9. What does this selection explain?

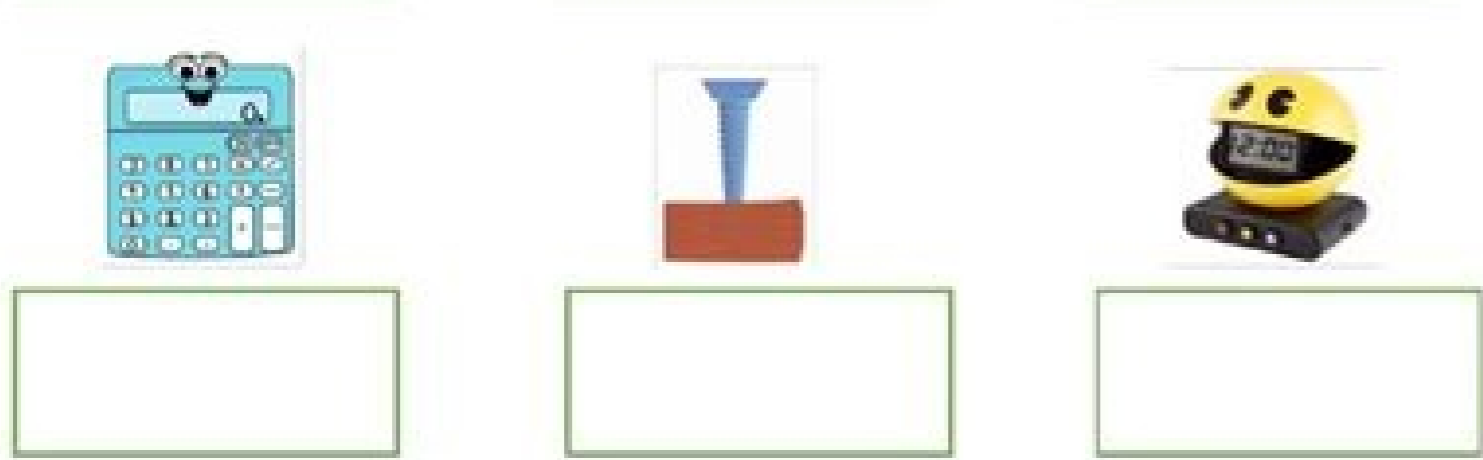
10. We read about four kinds of simple machines. A wheel and axle are one simple machine. Name four things you use that have wheels.

1. READ AND MATCH.

WHEELS AND AXLE - LEVER - SCREW -  
INCLINED PLANE - WEDGE - PULLEY



2. SIMPLE MACHINE OR COMPLEX MACHINE?



**SIMPLE MACHINES MULTIPLE CHOICE WORKSHEET**

1. A lever is...
  - a. A rigid bar with a pivot point
  - b. A type of machine that opens bottles
  - c. A ramp used to lift and lower objects
  - d. A tool to help pump water
2. What is an example of a type of LEVER?
  - a. Ramp
  - b. Skateboard
  - c. Scissors
  - d. Screwdriver
3. Levers, Inclined Planes, Wedges, Screws, Wheels, and Pulleys are types of:
  - a. Complex Machines
  - b. Tools
  - c. Simple Machines
  - d. Metal Machines
4. A pulley uses a...
  - a. Inclined plane, rope, and a lever
  - b. Screw, wedge and an inclined plane
  - c. Wheel and axle, and a rope
  - d. Groove, screw and a pivot point
5. An inclined plane is a ramp used to...
  - a. Pull and push objects
  - b. Remove and clean objects
  - c. Take photographs
  - d. Lift and lower objects
6. The longer the ramp, the \_\_\_\_ inclined it is!
  - a. Less
  - b. More
  - c. Same
  - d. Plus
7. Archimedes invented the screw in 260 B.C. to help...
  - a. Clean windows
  - b. Personal computers
  - c. Pump water from a river to irrigate the nearby land
  - d. Clean windows and pump water into computers
8. What did the Wright brothers invent?
  - a. Personal computers
  - b. Windscreen Wipers
  - c. Bicycles
  - d. Airplanes
9. What simple machine is the simplest because it only has one part?
  - a. Screw
  - b. Pulley
  - c. Lever
  - d. Inclined Plane
10. What is an example of a pulley with a wheel and axle?
  - a. Airplane
  - b. Bicycle
  - c. Toothbrush
  - d. Personal Computer



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