

How Robots Move/Simple Machines

Answer the following questions:

1. Can you give another example of a “Wheel & Axle”? Hint: Think about your daily transportation. _____
2. When you use a flagpole to raise a flag, this is an example of which of the following simple machines?
 - a. Wheel & axle
 - b. Pulley
 - c. Inclined plane
 - d. Wedge
 - e. Screw
 - f. Lever
3. When was the last time you used an inclined plane? _____
4. Is a handicap ramp an example of an inclined plane?
 - a. Yes
 - b. No
5. A shovel is an example of a wedge:
 - a. True
 - b. False
6. Which of the following are examples of a screw (twisted inclined plane) in real life?
 - a. Wheelbarrow
 - b. Jar lid
 - c. Bottle caps
 - d. Bobby pin
 - e. Choices b & c
7. A light switch and a bottle opener are examples of levers. This is:
 - a. True
 - b. False

How Robots Move/Simple Machines Solutions

Answer the following questions:

8. Can you give another example of a “Wheel & Axle”? Hint: Think about your daily transportation. *Examples include:* **Car, Truck, Bus, Wheelbarrow, Skateboard, etc.**
9. When you use a flagpole to raise a flag, this is an example of which of the following simple machines?
 - a. Wheel & axle
 - b. **Pulley ←**
 - c. Inclined plane
 - d. Wedge
 - e. Screw
 - f. Lever
10. When was the last time you used an inclined plane? *Examples include:* **Any time you used a door stop, slide, ramp, shovel, screw, or even driven on a steep road.**
11. Is a handicap ramp an example of an inclined plane?
 - a. **Yes ←**
 - b. No
12. A shovel is an example of a wedge:
 - a. **True ←**
 - b. False
13. Which of the following are examples of a screw (twisted inclined plane) in real life?
 - a. Wheelbarrow
 - b. Jar lid
 - c. Bottle caps
 - d. Bobby pin
 - e. **Choices b & c ←**
14. A light switch and a bottle opener are examples of levers. This is:
 - a. **True ←**
 - b. False