

# Simple Machines Practice Test

**Name of**

**School:** \_\_\_\_\_

**Team #:** \_\_\_\_\_

**Name#1** \_\_\_\_\_

**Name#2** \_\_\_\_\_

1. Identify the following simple machines by connecting each name with a picture

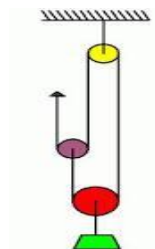


Wheel and Axle

Screw



Pulley



Lever

Inclined Plane



Wedge



2. Simple machines are

- a. Devices that increase force
- b. Devices that increase distance
- c. Devices that help people to do work faster and easier
- d. All of the above
- e. None of the above

3. The first Law of Motion is

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4. The second Law of Motion is

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5. The third Law of Motion is

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6. Energy is

- a. Doing work
- b. The ability to do work
- c. A longing to do work
- d. All of the above

7. What area of the world was the first area to use the Wheel and Axle?

8. What is in the middle of a first class lever?

9. What is in the middle of a second class lever?

10. What is in the middle of a third class lever?

11. Efficiency is always \_\_\_\_\_ 1.

12.  $17\text{N} \cdot 900\text{m} =$  \_\_\_\_\_

13. This is what type of gear?



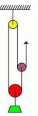





14. What type of gear is this?



15. What device can you use to reduce friction?

# Answers to Simple Machine Practice Quiz

1.
  - a. Wheel and Axle 
  - b. Screw 
  - c. Pulley 
  - d. Lever 
  - e. Inclined Plane 
  - f. Wedge 

2. C

3. An object at rest stays at rest, until acted on by another force.

4. Acceleration is produced by a body of force.

5. Every action has a opposite reaction.

6. B

7. Mesopotamia

8. Fulcrum

9. Load

10. Effort

11. less than

12. 15300 J (or newton-meter (NM)... give  $\frac{1}{2}$  credit for NM)

13. Planetary Gear

14. Herringbone Gear

15. Ball Bearings