

Name: \_\_\_\_\_

Date: \_\_\_\_\_

# SIMPLE MACHINES TEST

## 1. Circle True or False:

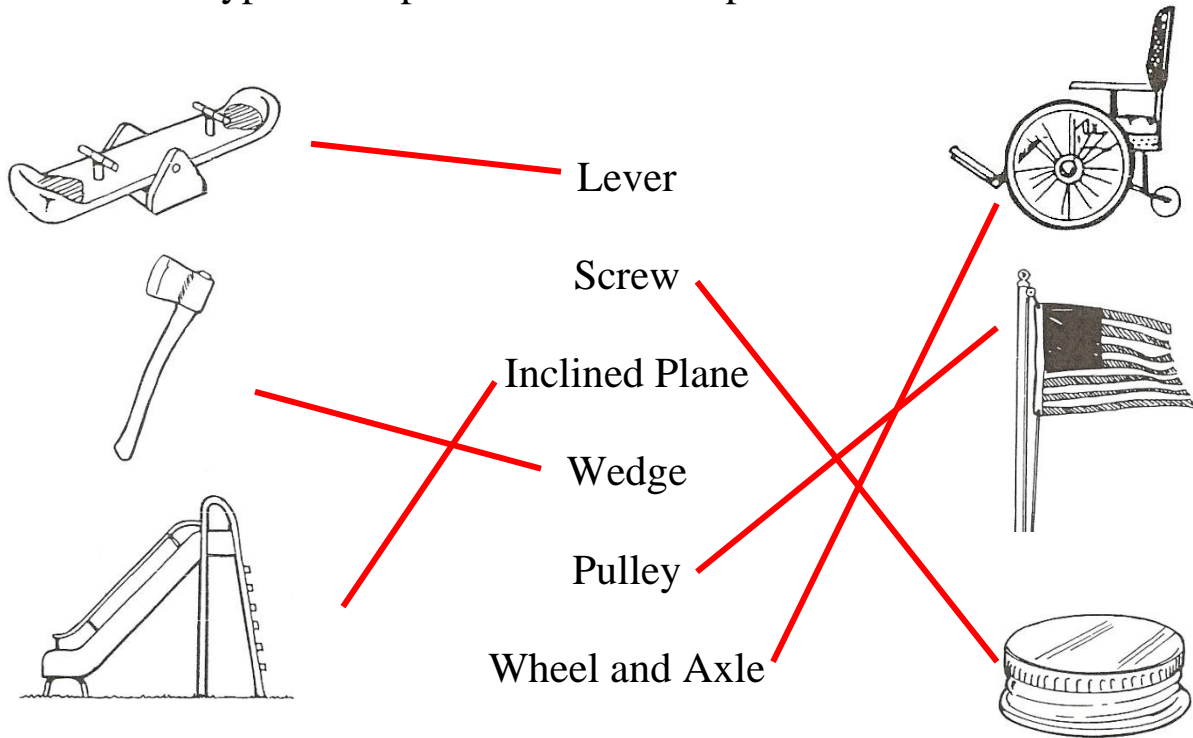
- |  |                                    |                                    |
|--|------------------------------------|------------------------------------|
| a) A force makes something move.                 | <input checked="" type="radio"/> T | <input type="radio"/> F            |
| b) Turning is a type of movement.                | <input checked="" type="radio"/> T | <input type="radio"/> F            |
| c) Bouncing is not a type of movement.           | <input type="radio"/> T            | <input checked="" type="radio"/> F |
| d) You can move something by pushing it.         | <input checked="" type="radio"/> T | <input type="radio"/> F            |
| e) You cannot move something by pulling it.      | <input type="radio"/> T            | <input checked="" type="radio"/> F |
| f) A fulcrum is always the middle of a lever.    | <input type="radio"/> T            | <input checked="" type="radio"/> F |
| g) A bigger slope makes things move down easier. | <input checked="" type="radio"/> T | <input type="radio"/> F            |
| h) All balls bounce the same.                    | <input type="radio"/> T            | <input checked="" type="radio"/> F |

## 2. Fill in the blanks to complete the sentence.

- a. A wedge is a tool with a slanting side that ends in a sharp edge.
- b. A wheel and axle make it easier to push or pull something.
- c. A pulley is a grooved wheel that holds a rope.
- d. A screw is an inclined plane that goes in a spiral. It helps hold things together.
- e. An inclined plane is a slanted surface connecting two levels.
- f. A lever is a bar that is used to help move something.

inclined plane	lever	pulley
wheel and axle	wedge	screw

3. Match the type of simple machine to the pictures.



4. A bicycle is a mechanism that uses many different simple machines.

a. Name the simple machines on a bicycle.

*wheel and axle, pulley, screw, and lever - 2 marks*

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b. How does a bicycle make life easier for humans?

*- Can get places faster.*

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*- Can move with less effort.*

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*- Can travel further than by foot. - 3 marks*

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5. Explain how simple machines help humans.

- They make it easier to do work.

- They make it easier to lift things.

- They make it easier to move things.

...etc

6. Explain how simple machines can be bad for humans.

- They make people lazy.

- We don't get as much exercise.

- We become dependant on them.

...etc

7. Explain how simple machines can affect the environment.

- Factories make pollution when they make them.

- When they are broken they go to the dump.

- They make it easier to cut down trees.

- It takes a lot of energy to make them.

...etc

Question	1	2	3	4	5	6	7	Total
Points	8	6	6	5	3	3	4	35
Score								

# SIMPLE MACHINES



LEVER  
SCREW  
PULLEY  
WHEEL AND  
AXLE  
WEDGE

INCLINED PLANE  
FORCE  
MOVEMENT  
PUSH  
PULL  
TURN

TWIST  
BOUNCE  
SIMPLE  
MACHINE  
MECHANISM  
FULCRUM