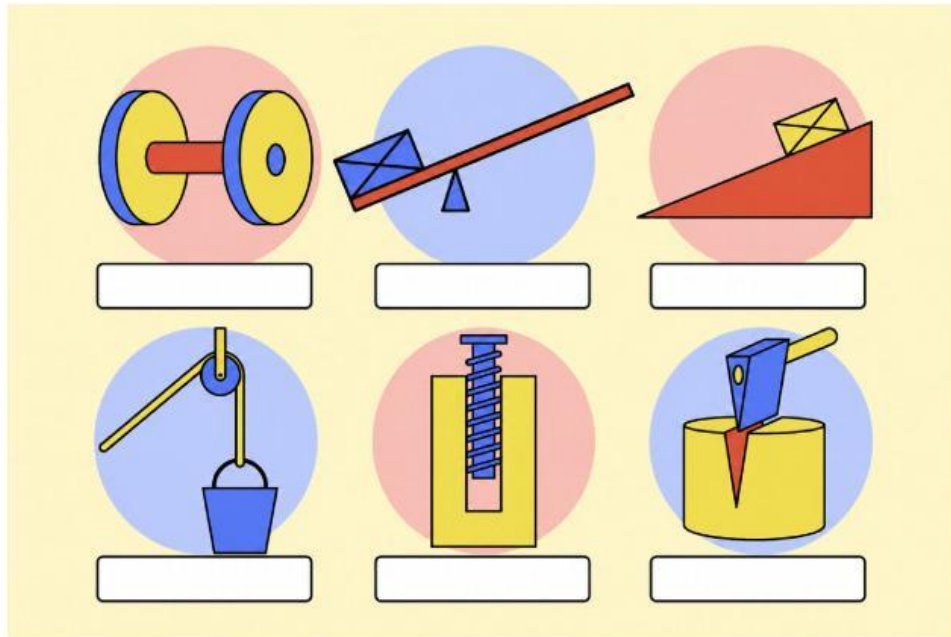


NAME;	TechnoScience	Grade ; _____
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 **Let's see how well you're understanding simple machines so far.**

1. Draw a line from the object to the simple machine it represents.



2. Use the words above to fill in the blanks in the following text.

1. A _____ is made up of two inclined planes and is very useful for separating objects
2. This simple machine is made up of two parts that act together. The ability of the _____ to roll makes moving a load over a long
3. To lift a heavy object upwards we may use a _____ which has a wheel with a groove in it and rope that we pull on to lift a load.
4. The _____ has a fulcrum or pivot point which can lie in a few different positions. This simple machine is used to lift a weight.
5. A _____ is formed by a cylinder with an inclined plane wrapped around it and is very useful for joining things together.

3. Fill in the blanks

Word Bank

Thread – load – effort – lift – pulley – screw

1. A pulley helps people _____ heavy objects.
2. The object being lifted is called the _____.
3. Simple machines reduce the _____ required to perform a task.
4. A screw has spiral lines called _____.
5. A pulley can help move a heavy _____ more easily.

4. Screws has spiral-shaped

It can be used for ;

- _____ holes on objects
- _____ heavy loads
- _____ things together

5. Multiple Choice

A ramp is an example of:

- a) wheel and axle
- b) inclined plane
- c) wedge

Which machine is used to cut or split objects?

- a) wedge
- b) pulley
- c) lever

Which machine is BEST for opening a paint can?

- a) lever
- b) screw
- c) pulley

Which machine is found in a jar lid?

- a) wedge
- b) screw
- c) pulley

6. Match the Word with the Meaning

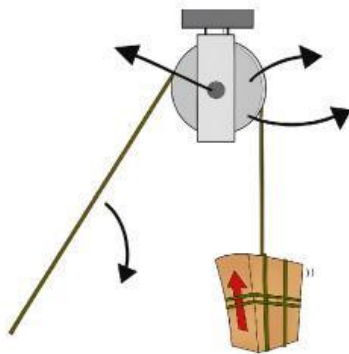
Word

1. Load
2. Effort
3. Thread
4. Lift

Meaning

- a. The force used to do work
- b. Spiral line on a screw
- c. The weight of an object
- d. Move something upward

7. Label the parts of the pulley.



8. Match the Simple Machine

Write the correct simple machine name.

1. A knife is a _____
2. A flagpole uses a _____
3. A doorknob is a _____
4. A seesaw is a _____

9. Fill in the Blank

Biomimicry is when humans copy _____ to solve problems.
Scientists study plants and animals to

10. A wheel without an axle turns smoothly.

True

False

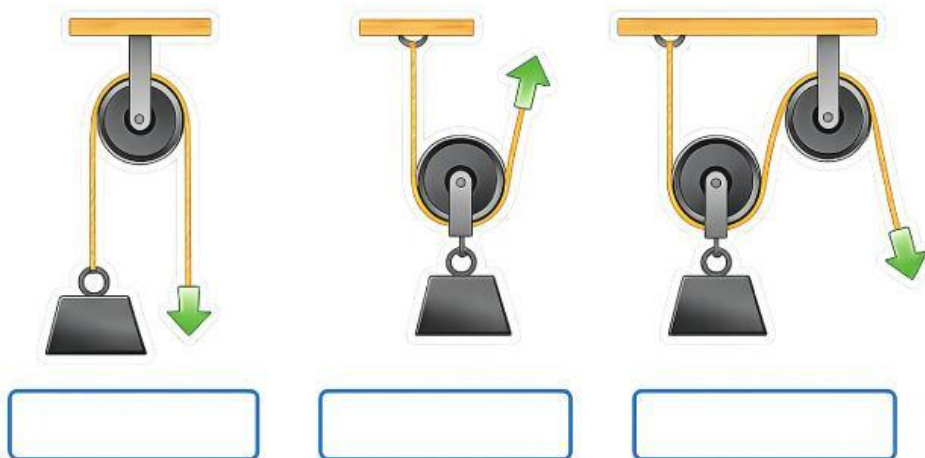
		

11. Biomimicry: Why are hills similar to inclined planes?

- a) They are round
- b) They help living things move up and down more easily
- c) They turn like wheels
- d) They are made of metal

12. Pulley Investigation

Write the name of each pulley system.



13. Real-Life Examples

Write **two examples of pulleys** used in everyday life:

Write **two examples of screws** used in everyday life:

14. Which example in nature is similar to a wheel?

- a) Seed wings spinning in the air
- b) A cloud
- c) A river
- d) A leaf

15. A wheel without an axle turns smoothly.

True False

16. What is an axle?

- a) A slanted surface
- b) A round object
- c) A bar that helps the wheel turn
- d) A type of animal

17. Observe the picture carefully.

Identify the simple machine. _____
Label its parts.



18. What happens when a ramp has a steeper slope?

- a) It becomes easier to climb
- b) It becomes harder to move objects up
- c) It becomes shorter
- d) It turns into a wheel

19. Match the machine with its function

Machine	Function
Wheel	Helps things turn
Axle	Holds the wheel steady
Ramp	Helps objects move up or down

20. Complete the sentence:

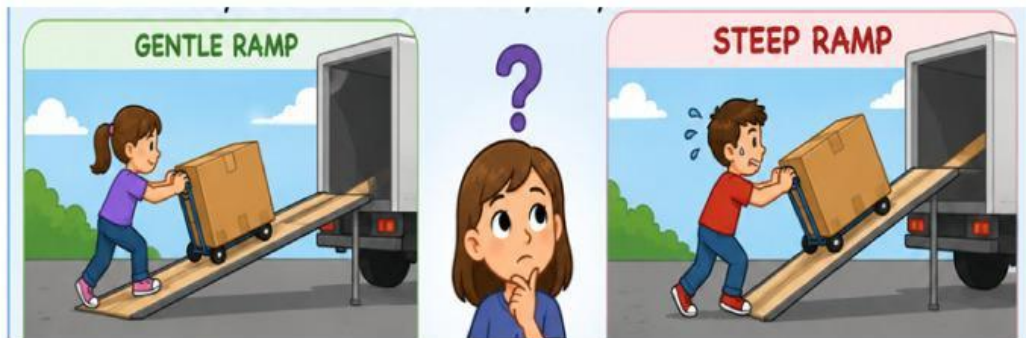
"This is a wheel. It helps to _____."

Word bank: move / roll / move things easily

21. Analyze the Situation: A student says: "A gentle ramp and a steep ramp work exactly the same." What would you say?

- a) Yes, because both are flat
- b) No, because a gentle ramp needs less effort
- c) Yes, because both are difficult
- d) No, because steep ramps are always easier



22. What happens when a ramp has a steeper slope?

- a) It becomes easier to climb
- b) It becomes harder to move objects up
- c) It becomes shorter
- d) It turns into a wheel

23. Which object is an inclined plane?

- a) Ramp
- b) Ball
- c) Pencil
- d) Spoon

24. Look around your classroom or school.

Name ONE object that uses a wheel and axle and explain how it helps people.

