Machines

A. Choose the Correct Answer:

1. What is a machine?

- a) A device that makes work harder
- b) A device that makes work easier
- c) A tool that uses only human power
- d) A natural force used to do work

2. Which of the following is an example of a simple machine?

- a) Car engine
- b) Washing machine
- c) Pulley
- d) Computer

3. What does a machine do?

- a) Increases the effort required to do work
- b) Makes work more difficult
- c) Reduces effort or changes the direction of force
- d) Slows down the work process

B. Fill in the Blanks:

1.	Α	i	s a	device	that	makes	work	easier	by	reducin	g the	effort
	needed.											
2.	A pulley is a	simp	le m	nachine	used	to lift		ob	ject	S.		
	Machines	help	us	by char	nging	the dir	ection	or			of the	force

C. Case Study:

Riya and her father were moving heavy furniture.

- They used a trolley with wheels to transport a heavy table.
- Her father explained that the wheels reduce the effort needed to move the table.
- Later, they used a lever to lift a large box, making the task easier.
- Riya realized that using machines helped them complete the task with less effort.

Case Study Questions:

- 1. What machine did Riya and her father use to move the table?
- 2. How did the wheels make the task easier?
- 3. What simple machine did they use to lift the box?
- 4. Why do machines reduce the effort required to do work?

D. Short Answer Questions:

- 1. What is a machine?
- 2. Name two examples of simple machines.
- 3. How do machines make work easier?

E. Long Answer Questions:

- 1. Explain the benefits of using machines in daily life with examples.
- 2. Describe how simple machines reduce effort and make work easier.
- 3. How do wheels and levers help reduce the force required for moving heavy objects?