

Simple Machines and Mechanical Advantage

Class 4 • Science • Worksheet (illustrative sample)

Worksheet for Class 4 Science: Simple Machines and Mechanical Advantage.

Questions

1. What is a simple machine?
2. Name the six classical simple machines.
3. What is the pivot point of a lever called?
4. What simple machine is used to hoist a national flag on a flagpole?
5. Identify the simple machine: A ramp used for wheelchairs at a hospital.
6. Identify the simple machine: A sharp chef's knife cutting vegetables.
7. How does a door knob make opening a latch easy?
8. Explain how a screw is related to an inclined plane.

Answer Key

1. A tool with few or no moving parts that makes work easier by changing force direction or multiplying effort.
2. Lever, inclined plane, pulley, wheel and axle, wedge, and screw.
3. The fulcrum.
4. A pulley (with rope and wheel).
5. An inclined plane.
6. A wedge.
7. It uses a wheel and axle: turning the larger knob turns the inner axle with less twisting effort.
8. A screw is an inclined plane wrapped spirally around a central cylinder or rod.

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