Class 6 Science: Work, Power and Energy - Study Material

Page 1: Notes

Work: Work is said to be done when a force moves an object through a distance.
Power: Power is the rate of doing work.
Energy: Energy is the capacity to do work.

Types of Energy:
• Mechanical Energy
• Heat Energy
• Light Energy
• Sound Energy
• Electrical Energy

Examples:
• Lifting a school bag involves work.
• A fast worker has more power.
• Food gives us energy.

Page 2: MCQs with Answers

1. The capacity to do work is called
Answer: Energy

2. SI unit of work is
Answer: Joule

3. Power is the rate of doing
Answer: Work

4. Electrical bulb converts electrical energy into
Answer: Light energy

5. Food provides us
Answer: Energy

Page 3: Short Questions with Answers

1. What is work?
Answer: Work is done when a force moves an object through a distance.

2. What is power?
Answer: Power is the rate of doing work.

3. What is energy?
Answer: Energy is the capacity to do work.

4. Name two forms of energy.
Answer: Heat energy and light energy.

5. What is the SI unit of work?
Answer: Joule.

Page 4: Long Questions with Answers

1. Explain work with an example.
Answer: Work is done when a force causes an object to move. For example, pushing a cart and making it move is work.

2. Differentiate between work, power and energy.
Answer: Work is the result of force causing movement. Power is the speed of doing work. Energy is the ability to do work.

3. Explain different forms of energy.
Answer: Energy exists in many forms such as heat, light, sound, electrical and mechanical energy. These forms can be converted from one to another.