



CREST
Olympiads
#CRESTInnovator

CREST Science Olympiad (CSO) Worksheet *for*

Class 4



Topic

Work and Energy



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Worksheet on Work and Energy

1. What type of energy is converted into mechanical energy in a car?

- a. Solar energy
- b. Wind energy
- c. Chemical energy from fuel
- d. Muscular energy

2. Which of the following is not an application of solar energy?

- a. Heating water
- b. Powering cars
- c. Generating electricity for homes
- d. Cooking food

3. Which of the following is an example of using wind energy?

- a. Riding a bicycle
- b. Using a solar-powered calculator
- c. Flying a kite
- d. Watching TV

4. Match the following.

	Column I		Column II
1.	Solar cooker	A.	Uses wind turbines to generate electricity.
2.	Electric car	B.	Uses the energy of flowing water to generate electricity.
3.	Hydroelectric power plant	C.	Relies on electrical energy for transportation.
4.	Wind farm	D.	Utilises solar energy to cook food.

- a. 1:D, 2:C, 3:B, 4:A
- b. 1:A, 2:C, 3:D, 4:B
- c. 1:D, 2:A, 3:B, 4:C
- d. 1:B, 2:C, 3:A, 4:D

5. How is the energy from flowing water harnessed in a hydroelectric power plant?

- a. Through solar panels
- b. With wind turbines
- c. Using turbines and generators
- d. By burning fuel

Answer Key

1. c - The type of energy that is converted into mechanical energy in a car is chemical energy from fuel.
2. b - Solar energy is not commonly used as the primary source of power for cars, unlike heating water, generating electricity for homes, or cooking food.
3. c - Flying a kite is an example of using wind energy. When a kite is flown, it captures the kinetic energy of the wind, which causes the kite to soar.
4. a -
Solar cooker: Utilises solar energy to cook food.
Electric car: Relies on electrical energy for transportation.
Hydroelectric power plant: Uses the energy of flowing water to generate electricity.
Wind farm: Uses wind turbines to generate electricity.
5. d - Turbines and generators are used in hydroelectric power plants to harness the energy from flowing water.

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