

Worksheet 1 | Lower Secondary

Stage (6-8)

1st Semester | 2023-2024

Name: KEY







Subject: Physics
Chapter 1: Energy
Class: 6 CS

Objectives:

- Identify different forms of energy.

Question 1:

Each of these objects transfers energy into useful types of energy.

 Light Energy	 Thermal Energy	 Thermal Energy
 Sound Energy	 Sound Energy	 Kinetic Energy

Write down the useful type of energy released below each object.

Choose the type of energy from

electrical kinetic light sound thermal ...

Question 2:

Write the correct type of energy described in each of the following situations:

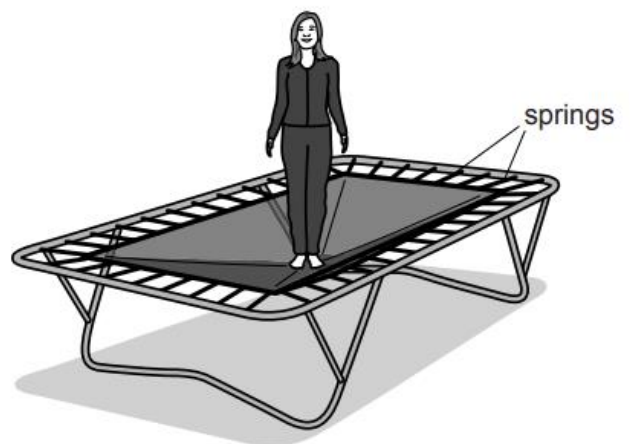
Situation	Form of energy
A car is moving.	Kinetic Energy.
The engine gets hot.	Thermal Energy
The headlights are on.	Light Energy
The engine is making noise.	Sound Energy
The car battery stores energy.	Chemical Energy
Wires inside the car pass this energy to the controls.	Electrical Energy
The car is filled with fuel.	Chemical Energy
The car seat is springy.	Elastic Energy
If the car is left on a hill without the handbrake on, it will roll down because of this energy.	Gravitational Potential Energy

Question 3: Fill in the table with an example of each type of energy:

Type of energy	Example
Kinetic energy	A moving car, bicycle, motorcycle.
Gravitational potential energy	A man standing on a diving board.
Elastic potential energy	Stretching rubber bands, spring.
Thermal energy	Heating food on stoves, the energy given by a fireplace.
Light energy	Light bulbs, traffic lights, candles.
Sound energy	Speakers, musical instruments.
Electrical energy	Charging your phone and computer.
Chemical potential energy	Energy stored in food, fuels, and batteries.

Question 4:

A girl is jumping over a trampoline.



- a. State the form of energy stored due to the stretching of the surface of the trampoline.

.....Elastic Energy

- b. What form of energy does the girl have when she jumps to the highest point?

.....Gravitational Potential Energy

Question 5:

(a) State the energy changes that take place when:

(i) A cyclist rides down a hill without pedaling,

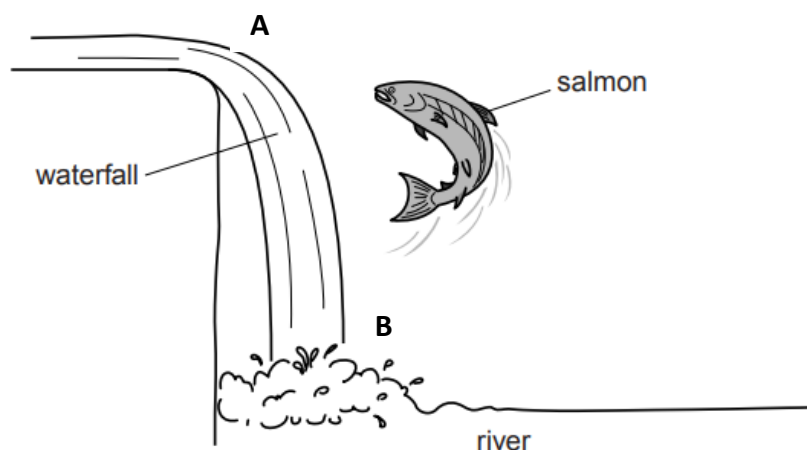
.....From gravitational potential Energy to Kinetic energy

.....

(ii) a cyclist pedals up a hill at a constant speed.

... From Kinetic Energy to gravitational potential energy

(b) the picture below shows a waterfall.



i) What form of energy does water have at **point A**?

..... Gravitational potential energy

ii) What form of energy does water have at **point B**?

..... Kinetic Energy