

# Work Sheet 1 | Lower Secondary

## Stage (6-8)

1<sup>st</sup> Semester | 2023-2024

**Name:**







**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.

 <p>.....</p>	 <p>.....</p>	 <p>.....</p>
 <p>.....</p>	 <p>.....</p>	 <p>.....</p>

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 situation:

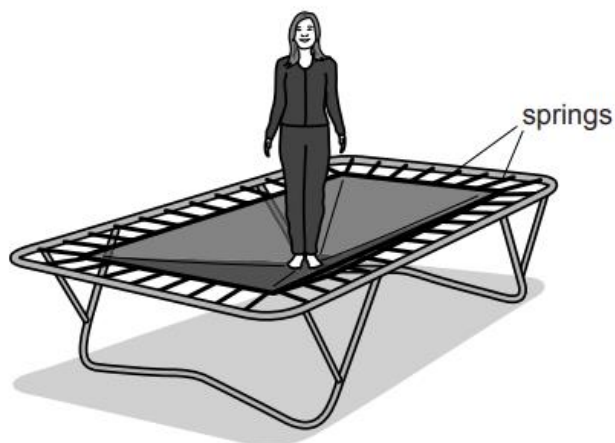
Situation	Form of energy
A car is moving.	
The engine gets hot.	
The headlights are on.	
The engine is making noise.	
The car battery stores energy.	
Wires inside the car pass this energy to the controls.	
The car is filled with fuel.	
The car seat is springy.	
If the car is left on a hill without the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

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

Type of energy	Example
Kinetic energy	
Gravitational potential energy	
Elastic potential energy	
Thermal energy	
Light energy	
Sound energy	
Electrical energy	
Chemical potential energy	

**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.

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

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**Question 5:**

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

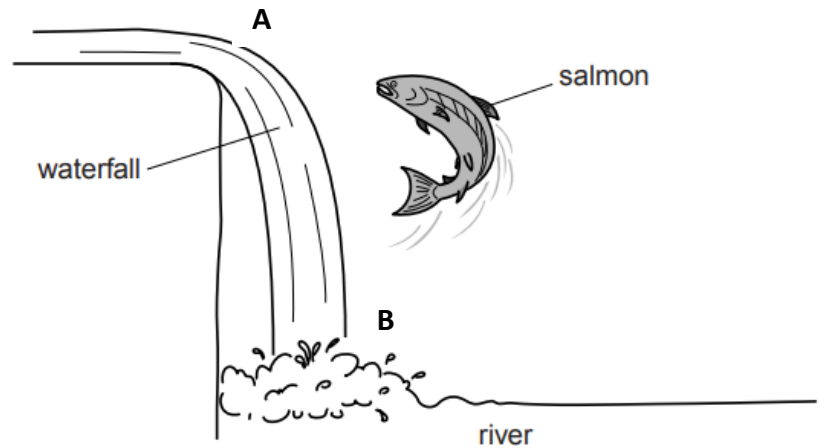
(i) a cyclist rides down a hill without pedaling,

.....  
.....

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

.....  
.....

(b) the picture below shows a waterfall.



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

.....

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

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