

# Energy, Work & Power

## Question Paper

Course	CIE IGCSE Physics
Section	1. Motion, Forces & Energy
Topic	Energy, Work & Power
Difficulty	Easy

**Time Allowed**      10

**Score**                /5

**Percentage**        /100

**Question 1**

Which energy transfer takes place when a log burns in a fire?

- A. Energy is transferred from the nuclear store of the log to the chemical store of the log.
- B. Energy is transferred from the nuclear store of the log to the thermal store of the surroundings.
- C. Energy is transferred from the chemical store of the log to the thermal store of the surroundings.
- D. Energy is transferred from the thermal store of the log to the nuclear store of the surroundings.

[1 mark]

**Question 2**

Which row correctly matches an energy store with an example of that store?

	Energy Store	Example
A.	kinetic	a car moving at 70 km / h
B.	elastic	a box sitting high on a shelf
C.	magnetic	compression of springs in a car's suspension
D.	chemical	the nuclei of uranium atoms

[1 mark]

### Question 3

Which of the following statements is **not** a summary of the law of conservation of energy?

- A. Total energy in = total energy out
- B. There is a finite amount of energy in a closed system that can be transferred from one store to another
- C. The total energy in a system is used up as it is transferred from object to object
- D. Energy cannot be created or destroyed, it can only be transferred from store to store by a transfer pathway

[1 mark]

### Question 4

Identify the **incorrect** definition of power.

- A. A force acting over a distance
- B. Work done per unit time
- C. Energy transferred per second
- D. The rate of work done

[1 mark]

### Question 5

Identify the correct energy transfer taking place when an electric kettle is boiling water

- A. Chemical energy store → thermal energy store
- B. Thermal energy store → chemical energy store
- C. Thermal energy store → thermal energy store
- D. Nuclear energy store → thermal energy store

[1 mark]



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