

Energy stores and transfers



Task 1: Energy stores

Draw a line to **match** the energy store to its description.

Energy store

Description

kinetic

stored in foods, fuels or batteries

chemical

involves splitting or fusing atoms

elastic potential

stored in moving objects

thermal

stored in objects off the ground

nuclear

stored as heat

gravitational potential

stored in stretched objects

Task 2: Energy transfers

Complete the questions below.

a) **Identify** the energy transfer taking place in the following scenarios:

i) A person picking up an object.

ii) A cup of tea warming up a person's hands.

iii) A toaster using infrared waves to toast some bread.

b) **Give an example** of an electrical energy transfer.

Name _____

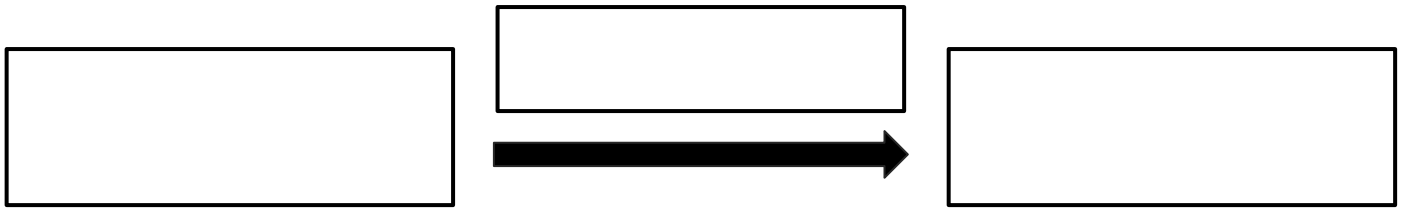
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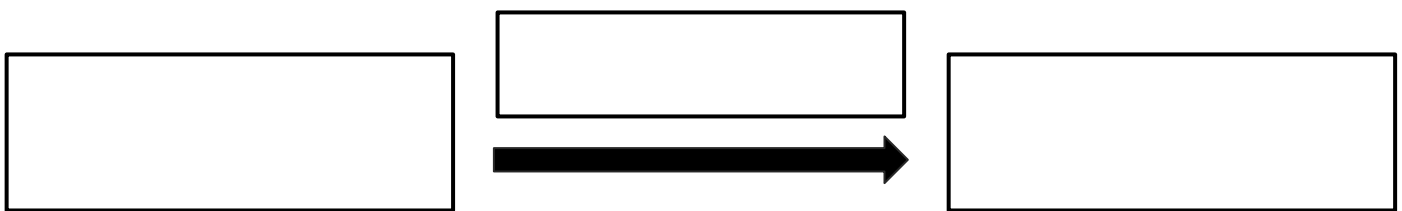
Task 3: Identifying energy pathways

Draw energy pathway diagrams for the following scenarios:

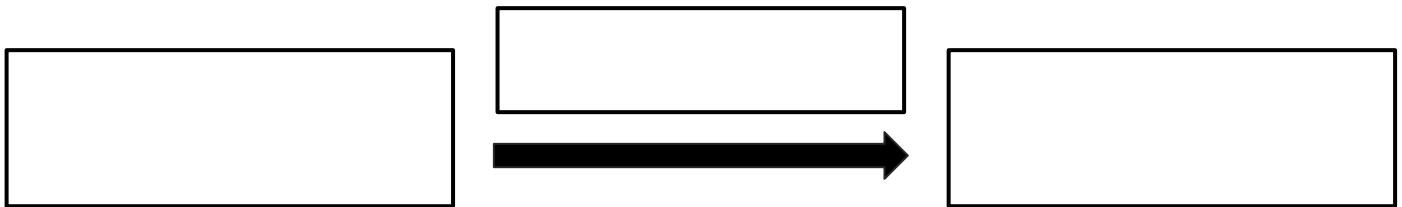
- a) A long distance runner transferring energy from their muscles into movement.



- b) An apple falling from the top of a tree.



- c) A pair of wet socks drying on a radiator.



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Answers



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Task 2: Energy transfers

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a) **Identify** the energy transfer taking place in the following scenarios:

i) A person picking up an object.

mechanical

ii) A cup of tea warming up a person's hands.

heating

iii) A toaster using infrared waves to toast some bread.

radiation

b) **Give an example** of an electrical energy transfer.

An example: An electrical circuit transferring energy from a battery to a motor.

Name _____

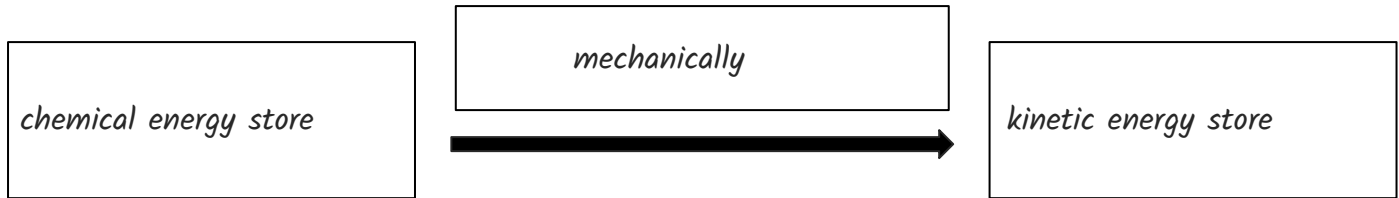
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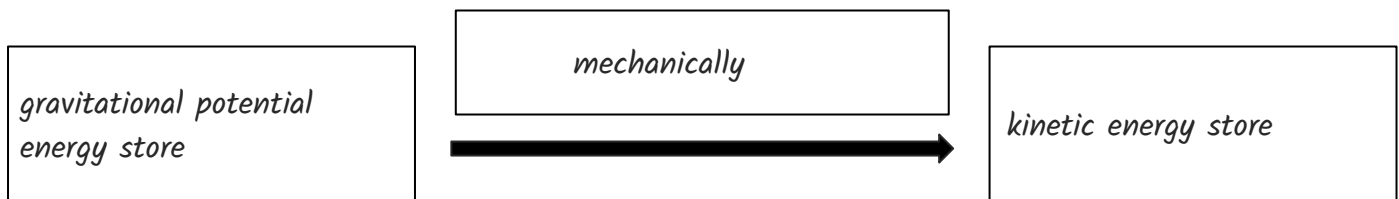
Task 3: Identifying energy pathways

Draw energy pathway diagrams for the following scenarios:

- a) A long distance runner transferring energy from their muscles into movement.



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