

Physics - Key Stage 3 - Energy

# Lesson 1: Energy Stores and Pathways

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# Independent practice: match the store and description.

Store
Chemical
Elastic potential
Magnetic
Gravitational potential
Kinetic
Nuclear
Thermal
Electrostatic

Description
an object where the height has changed.
an object that is moving.
any object, hotter objects have more.
stored between electric charges.
objects that are being stretched or compressed.
released in a chemical reaction.
stored within the nuclei of atoms.
stored between magnets.



# **Independent practice: answer the questions.**

What are the 8 energy stores?

What are the 4 energy pathways?

Give an example of a chemical store

Give an example of a kinetic store



# Independent practice - identify the stores and pathways

## Person climbing up the stairs

A person uses the chemical store of energy in their muscles to climb up the stairs from the ground floor to the first floor. They are on a higher floor, so have more energy in their gravitational potential store.

Which **stores** are fuller at the start and then empty?

Which **pathway** is used to transfer the energy?

Which **stores** fills up and are fuller at the end?

