

## **DIFFERENT TYPES OF ENERGY**

### **KEY IDEAS**

- Energy is essential for machines to operate
- Different types of machines need different types of energy to make them work
- Energy can be stored until it is needed

### **EXAMPLE QUESTIONS**

- How do machines use energy to make them work?
- What different sources of energy do different machines use?
- In what kinds of ways can energy be stored?

## **MACHINES NEED ENERGY TO MAKE THEM OPERATE**

- Energy is essential for machines. Some simple machines get the energy they need from human muscles.
- Some require other sources of energy, such as electricity , heat, chemical or nuclear power, or the movement of wind or water.
- Some machines keep replaceable or rechargeable energy stored inside them (batteries or wind-up springs, for example); others get heat energy from fuels, such as oil, coal and wood.
- Other machines are attached to centrally supplied energy sources (electrical power lines and gas mains).
- All machines need a source of energy to make them operate.

## **MACHINES INVOLVE THE TRANSFER OF ENERGY**

- All machines take energy from one source and transfer it to another.
- A pair of scissors takes energy from our hands and transfers it to the cutting blades.
- A car takes the stored energy in petrol and transfers it into heat in the engine

and then from the engine to the wheels.

## **ENERGY CAN BE STORED**

- Energy cannot be created or destroyed but it can be stored in various forms.
- One way to store it is in the form of chemical energy in a battery.
- A wind up clock stores potential energy in the spring tension

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