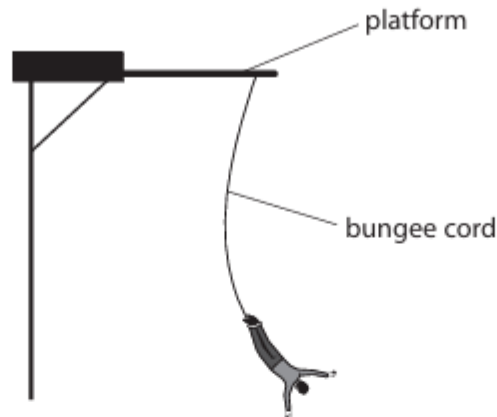


Achievement test questions:

Question 1:

Bungee jumping is an activity that involves jumping from a tall structure or platform while connected to a bungee cord.

The diagram below shows a person performing a bungee jump off a platform.



(a) Name the force that pulls the bungee jumper towards the ground.

(1)

Weight

(b) The box contains the names of six different types of energy.

chemical	elastic	electrical
gravitational potential	kinetic	sound

Use words from the box to complete the following sentences.

(3)

When the bungee jumper falls from the platform his gravitational potential energy is transferred as kinetic energy.

As the jumper falls the bungee cord will stretch.

When the bungee cord is stretched the energy is stored as

elastic energy.

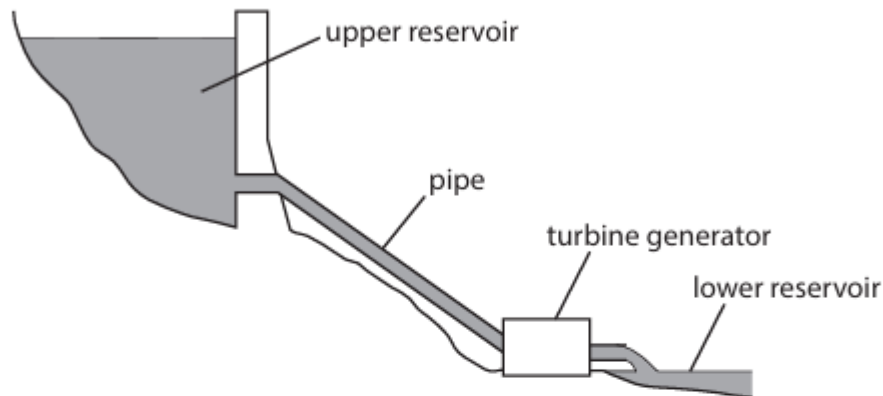
(Total for Question 1 = 4 marks)

Question 2:

The diagram represents a hydroelectric power station.

The upper reservoir is connected to the turbine generator through a pipe.

The turbine generator uses the energy stored in the water and transfers it electrically.



Which **two** statements about the energy transfers that occur are true?

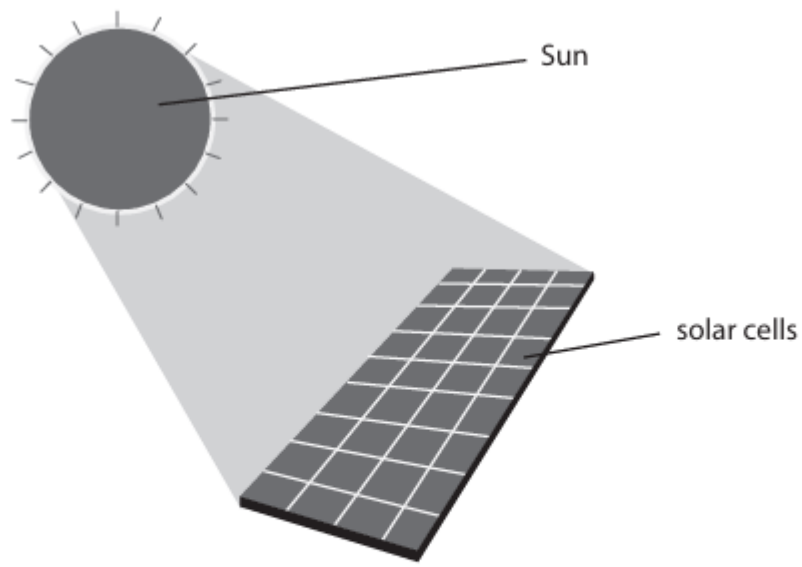
Tick (✓) **two** boxes.

Statement	True
in the upper reservoir energy is stored in the kinetic energy store of the water	<input type="checkbox"/>
in the upper reservoir energy is stored in the gravitational potential energy store of the water	<input checked="" type="checkbox"/>
as the water moves through the pipe it loses gravitational potential energy and gains kinetic energy	<input checked="" type="checkbox"/>
as the water moves through the turbine generator it loses gravitational potential energy and gains electrical energy	<input type="checkbox"/>
as the water moves through the turbine generator it gains gravitational potential energy and loses kinetic energy	<input type="checkbox"/>

(Total for Question 12 = 2 marks)

Question 3:

Solar cells absorb energy from the Sun.



How is this energy transferred from the Sun to the solar cells?

- ☐ **A** by electricity
- ☐ **B** by heating
- ☐ **C** by forces
- ☒ **D** by light waves