



**CAN YOU HELP
SAVE THE PLANET?**

1. Identify the three states of water. Write liquid, gas or solid.



2. Match to make complete sentences.

Everything is

solid, liquid or gas.

Matter can

it melts and changes into liquid water.

Gases do not have

it changes into a solid called ice.

If we freeze liquid water,

change state.

If we heat ice,

made of matter.

Matter can be

a definite shape or a definite volume.



3. Choose the correct word to explain how water can change state.

freezes

condenses

evaporates

melts

When we heat solid water, it changes to a liquid.

It .

When we heat liquid water, it changes to a gas.

It .

When we cool liquid water, it changes to a solid.

It .

When we cool water vapour, it changes to a liquid.

It .

4. Read the sentences and choose True or False.

a) Ice is water in a solid state.

True / False

b) Liquids have a definite shape, but they do not have a definite volume.

True / False

c) Energy can change from one form to another.

True / False

d) We can always see the different materials in a mixture.

True / False

5. Label the diagram with the words in the box.

ice water vapour melting condensation evaporation freezing



6. Complete the text about energy.

Energy is everywhere. We cannot always see it, but it is all around us. There are different forms of energy and they can change from one form to another. The sun produces (a) _____ energy and (b) _____ energy. Plants use energy from the sun to perform photosynthesis.

Anything we can hear has (c) _____ energy.

Anything that moves has (d) _____ energy.

Remember that (e) _____ energy can be changed into different forms of energy. Many of the machines in our homes need this form of energy to work.





7. Year 3 are doing an investigation into separating mixtures. They have to decide how to separate a mixture of water, marbles, sand and salt. What should they do? Circle the correct word or words.

- a) The pupils can see *one substance / more than one substance* in this mixture.
- b) First, they separate the marbles from the mixture using *evaporation / sieving / filtering*.
- c) Next, they separate the sand from the mixture using *evaporation / sieving / filtering*.
- d) Finally, they separate the salt from the mixture using *evaporation / sieving / filtering*.
- e) They can turn the water vapour into a liquid again: *yes / no*.

