BANANALEARN LEARNING LIBRARY

Water changes







In this chapter

01 Solid water

02 Melting

03 Evaporation

04 Drops from the air

05 Rain returns water

Water changes

Solid water



Look at the edges of the ice. What shape does the solid hold?

THE IDEA

Ice is solid water. A piece of ice keeps its own shape until it starts to melt.

CHECK YOUR THINKING

A piece of ice is moved into a round bowl. Does it immediately become round?

> No. While solid it keeps its shape. Meltwater can spread into the bowl.

Water changes

Melting



Find the water around the ice. Which parts still hold their shape?

THE IDEA

Ice melts into liquid water when it gains enough heat. Melting changes the state of the water.

CHECK YOUR THINKING

A small puddle appears beneath an ice cube on a warm plate. Where did it come from?

> Part of the ice absorbed heat and became liquid.

Water changes

Evaporation



Trace the edge of the puddle. How could you tell if it shrinks?

THE IDEA

Liquid water at a surface can change to invisible water vapour. A puddle can dry even without boiling.

CHECK YOUR THINKING

A puddle on a sealed tray shrinks on a dry day. Where can water go?

> Into the air as water vapour. This change is evaporation.

Water changes

Drops from the air



Look for drops on the outside surface of the bottle.

THE IDEA

Water vapour in air can cool on a cold surface and turn into drops. This is condensation.

CHECK YOUR THINKING

A sealed, dry cold bottle gets wet outside. Did the water pass through the bottle?

> The drops can come from water vapour in the surrounding air.

Water changes

Rain returns water



Follow the rain from the cloud to the ground.

THE IDEA

Cloud droplets or ice particles can grow big enough to fall. Rain moves water from the sky to the ground.

CHECK YOUR THINKING

After rain, some water runs downhill. Where could it collect?

> In a low place such as a pond. Some also soaks into the ground.

ONE LAST CHALLENGE

Where did the water go?

A wet shirt hangs on a line. Hours later it feels dry, and there is no puddle below it.



THE REVEAL

Into the air as water vapour.

Liquid water evaporated from the cloth.

Find your next science guide

More visual notes, worked examples and practice questions.

Explore bananalearn.com →