The water cycle

**Condensation:** as the warm moist air rises through the cooler denser air above, the **water vapour** condenses forming tiny water droplets, eventually forming **clouds**.

**Transpiration:** water is absorbed by **plants** via their roots, and can be released as **water vapour** via their leaves, adding to the water vapour directly evaporating from the **oceans**.

Shape, arrow

Description automatically generatedLearning objectives

1. Identify processes in the water cycle.

**Evaporation:** the Earth’s surface absorbs energy from the Sun, causing an increase in the rate of evaporation of surface water forming **water vapour.**

1. Construct a model of the water cycle.

Introduction

The water cycle is the continuous movement and transportation of water on Earth driven by the energy of the Sun.

**Percolation:** some water will percolate through the **soil** and **rocks.** It can remain as **groundwater**, transport back to the **oceans**, or be absorbed by **plants**.

Instructions

Cut out the boxes of text along the dotted lines. Match these to the appropriate blank boxes on the water cycle diagram.

**Precipitation:** when the **water droplets** are large enough, they fall back to the Earth’s surface as **rain**, **sleet** or **snow**.

If your diagram does not have arrows, cut out the blue arrows and arrange them to show the movement of water through the diagram.

**Runoff:** some of the water will run over the Earth’s surface, via **streams** and **rivers** back to the **sea**.

The water cycle

**Condensation:** as the warm moist air \_\_\_\_\_\_\_\_ through the cooler denser air above, the **water vapour** \_\_\_\_\_\_\_\_\_\_ forming tiny water droplets, eventually forming **\_\_\_\_\_\_\_\_\_**.

**Transpiration:** water is \_\_\_\_\_\_\_\_\_ by **plants** via their roots, and can be released as **water vapour** via their leaves, adding to the water vapour directly \_\_\_\_\_\_\_\_\_\_\_ from the **oceans**.

Learning objectives

1. Describe processes in the water cycle.

**Evaporation:** the Earth’s surface absorbs \_\_\_\_\_\_\_\_\_ from the Sun, causing an increase in the rate of evaporation of surface water forming **water \_\_\_\_\_\_\_\_\_.**

1. Construct a model of the water cycle.

Introduction

**Word bank**

absorbed  clouds

condenses  energy

evaporating  groundwater

oceans  plants

rises  rivers

sleet  snow

soil  streams

vapour  water droplets

The water cycle is the continuous movement and transportation of water on Earth driven by the energy of the Sun.

**Precipitation:** when the **\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_** are large enough, they fall back to the Earth’s surface as **rain**, **\_\_\_\_\_\_\_** or **\_\_\_\_\_\_\_\_**.

**Percolation:** some water will percolate through the **\_\_\_\_\_\_\_\_** and **rocks.** It can remain as **\_\_\_\_\_\_\_\_\_\_\_\_\_\_**, transport back to the **\_\_\_\_\_\_\_\_\_\_**, or be absorbed by **\_\_\_\_\_\_\_\_\_**.

Instructions

Cut out the boxes of text along the dotted lines. Match these to the appropriate blank boxes on the water cycle diagram.

Fill in the blanks using the words in the word bank provided. You only need to use each word once.

**Runoff:** some of the water will run over the Earth’s surface, via \_\_\_\_\_\_\_\_and \_\_\_\_\_\_\_\_ back to the **sea**.

If your diagram does not have arrows, cut out the blue arrows and arrange them to show the movement of water through the diagram.

Shape, arrow

Description automatically generated

Diagram

Description automatically generatedThe water cycle

Diagram

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