



# SCIENCE OF THE SNOWY SCHEME

## *with Kirsten Banks*

### WEATHER

#### Multiple choice questions

**1**

Where are Kirsten and Mic?

CIRCLE ANSWER

Blue Mountains

Guthega Meteorological Station

Cooma Weather Station

**2**

What is measured at this weather station?

CIRCLE ANSWER

Water flow and speed

Precipitation, humidity and temperature

Pygmy Possums

**3**

What part of Australia is the Snowy Mountains?

CIRCLE ANSWER

North Western Australia

South Eastern Australia

North Eastern Australia

#### Complete the statements by filling in the missing word

The Snowy Mountains is the highest mountain range in Australia | highest or lowest

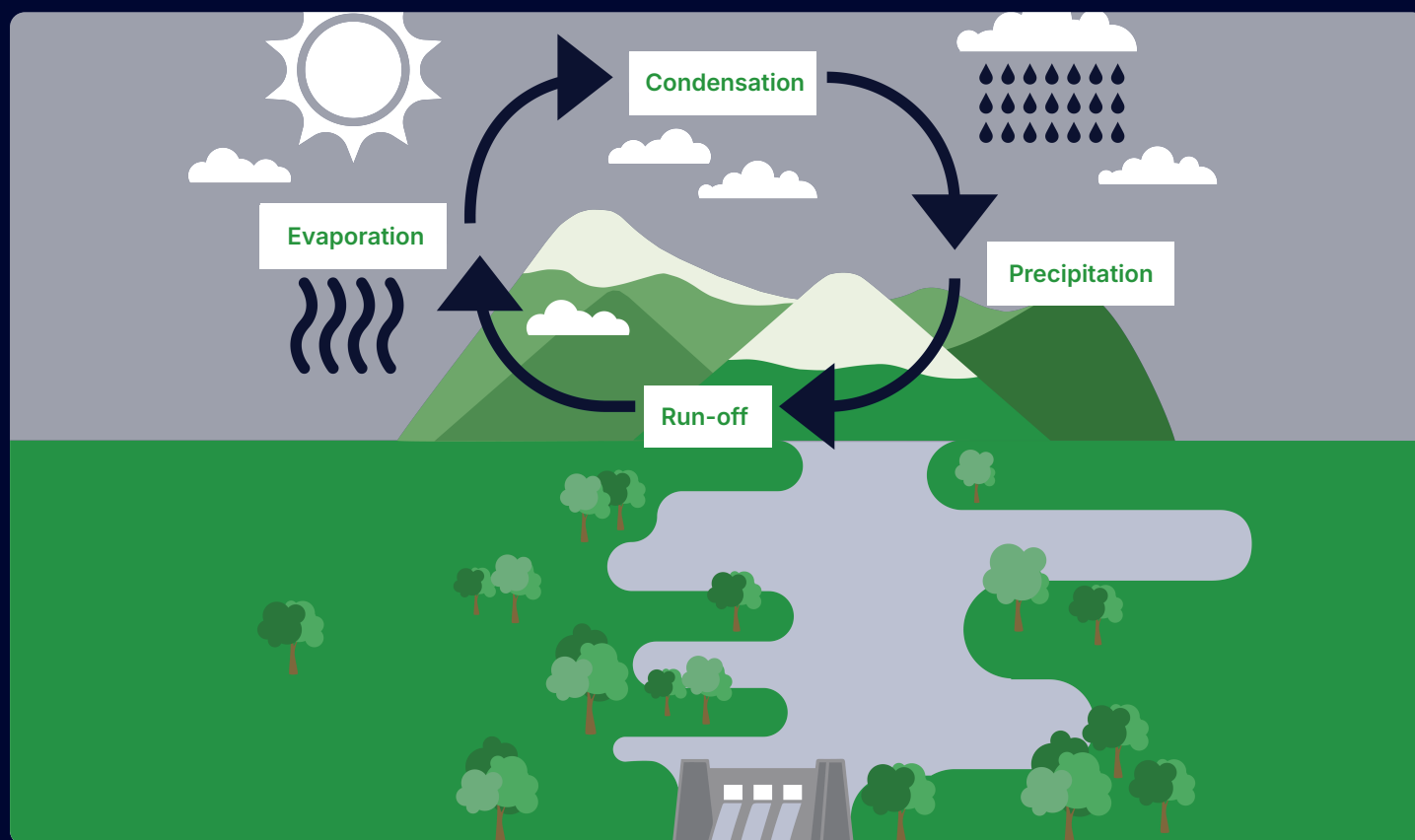
The Snowy Mountains is the ideal place for snow to collect naturally | snow or rain

Snow melts to make water to generate clean green hydro power | freezes or melts

## The water cycle

Label the diagram using the word bank below

condensation | evaporation | precipitation | run-off



### Research question

What is the name of the instrument seen in the video that Snowy Hydro uses to measure the depth and water content of snow?

**Answer** \_\_\_\_\_ a Federal Sampler

Click here or visit [snowyhydro.com.au/education-resources/weather/](https://snowyhydro.com.au/education-resources/weather/) to find out the answer!



In one sentence answer the question below

What role did the weather play in selecting the Snowy Mountains for the location of the Scheme?

The Snowy Mountains are perfectly situated as the highest mountain range in Australia that experiences natural snow falls. Snowy Hydro uses the water from melted snow to generate hydro power.

### Research question

How important is weather data to the operation of the Scheme?

Use the word bank to find the answer

rely | water | licence | hydro | data | meteorologists | weather station

Operations of the Scheme rely on the data which goes into forecasting done by Snowy Hydro meteorologists based in Sydney and Cooma.

Forecasting uses data collected from the weather station. The data provides essential knowledge to operations to ensure that water is in the right place at the right time. Water is moved around the Scheme to meet the water licence requirements and to generate clean, green hydro power.

### Summary question

Why does the water need to be in the right place at the right time across the Snowy Scheme?

To meet the water licence requirements for environment and agriculture and for the generation of renewable energy.