



NAME: _____

2024 National Science Quiz

ROUND ONE: Multiple Choice (*circle your answers*)

QUESTION 1

How was Australia's tallest mountain, Mount Kosciuszko, formed?

- A. Volcano
- B. Continental collision
- C. Australia drifted over a lump in the mantle
- D. Asteroid impact

QUESTION 2

Australia's developing a green steel industry that uses hydrogen for fuel instead of coal. What extra element needs to be added to make steel?

- A. Nitrogen
- B. Helium
- C. Chromium
- D. Carbon

QUESTION 3

What did the Gunditjmara people farm, in the shadow of Budj Bim?

- A. Yam daisies
- B. Eels
- C. Kakadu plums
- D. Kangaroo grass

QUESTION 4

Which of the following elements is named after where it was first discovered?

- A. Hydrogen
- B. Helium
- C. Lithium
- D. Beryllium

QUESTION 5

Pick the totally true statement about insects.

- A. Insects like dung beetles help clean up animal poo by eating it but then they are deadly to humans.
- B. Insects like mosquitoes help by spreading great jokes but they can also spread diseases.
- C. Insects like moths help by eating redback spiders around your house but some moths can eat your clothes.
- D. Insects like flies help by pollinating plants but some flies are pests that eat fruit.

ROUND TWO: How Many? (*Closest answer wins*)

QUESTION 1

How many ways can you put six identical lego bricks together?

QUESTION 2

How many neck bones does a giraffe have?

QUESTION 3

How many grams of salt are there in one litre of seawater (on average)?

QUESTION 4

How many elements are on the periodic table?

QUESTION 5

How many moons are in the Solar System? (as of July 2024)

ROUND THREE: True or False

QUESTION 1

True or false? A bluebottle isn't one animal, it's a colony of lots of animals all working together.

QUESTION 2

True or False? The coldest place in the Universe is the Boomerang Nebula.

QUESTION 3

True or false? The Sun was warmer back when the Earth was formed, 4.5 million years ago.

QUESTION 4

True or false? Black asphalt roads can't be recycled.

QUESTION 5

True or false? Bushfires can cause tornadoes.

ROUND FOUR: Tea Break (no questions this round)

Watch and learn: it's experiment time!

ROUND FIVE: Mixed Question Round

QUESTION 1

CSIRO has an air archive, consisting mostly of tanks filled at Kennaook/Cape Grim. Where do the oldest samples come from?

QUESTION 2

What's the biggest native animal that lives in Australia (HINT: it has to spend at least some time on land to count)?

QUESTION 3

Who was the first woman in space?

QUESTION 4

According to the Meriam people living on Mer (Murray) Island in the Torres Strait, what does it mean when the stars are blue and twinkling rapidly?

ROUND SIX: Aussie Scientists (CSIRO STEM Professionals in Schools Round)

QUESTION 1

Who's the scientist and inventor on the \$50 note?

QUESTION 2

What science is Dr Cathy Foley, Australia's Chief Scientist, famous for?

- A. Engineering
- B. Physics
- C. Quantum physics
- D. Biology

QUESTION 3

Terry Tao is regarded as possibly the greatest living expert in what area of study?

QUESTION 4

What kind of telescope did Ruby Payne-Scott use?

QUESTION 5

Howard Florey helped invent which important medicine?

QUESTION 6

Elizabeth Blackburn won a Nobel Prize in 2009. What category was it?

ROUND SEVEN: Rapid Round

QUESTION 1

Which end of a battery do electrons flow out of?

QUESTION 2

What's the driest continent?

QUESTION 3

How many legs does a butterfly have?

QUESTION 4

Which planet is the hottest?

QUESTION 5

What chemical makes the burning sensation when you eat a chilli?
