

SCIENCE KNOWLEDGEATHON

Name: _____ Hub _____

Level 1 - 25 questions

Level 2 - Level 1 plus an additional 25 questions (50 in total)

Level 3 - Level 2 plus an additional 25 questions (75 in total)

Level 4 - Level 3 plus an additional 25 questions (100 in total)

I am on Level (please circle) 1 2 3 4

QUESTIONS

- LEARN all the answers to the questions at your level. Tui and Kereru must learn the correct spelling also!
- PRACTISE them often - every day, even!
- Get someone in your family, or a friend, to TEST you.

SPONSORSHIP

This year there are TWO WAYS you can collect sponsorship:

Sponsorship Form:

- Collect sponsorship pledges from your family, friends, neighbours you know, on the form you have been given
- Do not ask people you don't know to sponsor you
- Ask them to sponsor you for the percentage you get correct, or they may offer a one-off donation
- After you have been tested, you will then need to collect your sponsorship money. It needs to be back at school by Wednesday 23 September

Givealittle:

- Collect sponsorship donations directly from family and friends, even those overseas, via the [Givealittle page link](#)
- Givealittle sponsorship can only be by way of a one off donation
- Individual sponsorship is possible *from next week - individual info is still being loaded by Givealittle* and you are still eligible for the prizes
- No need to collect money after testing.

TESTING

- Testing will happen in Week 7 (31 August - 4 Sept)
- Kiwi and Piwakawaka children will answer orally.
- Pukeko, Tui and Kereru will write their answers down.
- Tui and Kereru must also SPELL your answers correctly.

Section 1 - The Human Body

Level 1

- | | |
|---|----------|
| 1. What organs do we use to help us breathe? | Lungs |
| 2. What organ do we use to help us think? | Brain |
| 3. What are the two holes in your nose called? | Nostrils |
| 4. What are the bones that protect organs like your heart called? | Ribs |
| 5. Where is the smallest bone in your body? | Your ear |

Level 2

- | | |
|---|------------|
| 6. How many bones are there in the human body? | 206 |
| 7. What is the body's largest organ? | The skin |
| 8. What is the coloured part of the eye called? | Iris |
| 9. What is the most common eye colour in the world? | Brown |
| 10. Which bone is the most commonly broken bone? | Collarbone |

Level 3

- | | |
|--|------------|
| 11. How many breaths does the average person take each day? | 25 000 |
| 12. What substance are nails made of? | Keratin |
| 13. What do we call the bones that make up the spine? | Vertebrae |
| 14. What is the most common blood group/type? | O |
| 15. What are the two chambers at the bottom of the heart called? | Ventricles |

Level 4

- | | |
|---|-----------------------|
| 16. What part of the body does psoriasis affect? | The skin |
| 17. What is the scientific name for your voice box? | Larynx |
| 18. What is the largest part of the brain called? | The cerebellum |
| 19. What is the largest muscle in the human body? | Gluteus maximus |
| 20. DNA, the carrier of genetic instruction, stands for what? | Deoxyribonucleic acid |

SCIENCE KNOWLEDGEATHON

Level 1	Answer
1. What is a baby cow called?	Calf
2. What gas is made by trees and helps us breathe?	Oxygen
3. What is the largest type of bear?	Polar bear
4. How many legs does a spider have?	8
5. What is the fastest land animal in the world?	Cheetah
Level 2	Answer
6. What substance made by flowers sometimes give us hay fever?	Pollen
7. Emperor, chinstrap and macaroni are types of what?	Penguin
8. What is the world's tallest grass?	Bamboo
9. If an animal is nocturnal, when does it sleep?	Daytime
10. What is the only mammal native to NZ?	Bat
Level 3	Answer
11. What is an animal that eats both plants and other animals known as?	Omnivore
12. A person who studies living things is known as a what?	Biologist
13. What are the male parts of a flower called?	Stamen
14. What type of animal has a backbone?	Vertebrate
15. What is the group of organisms including mushrooms?	Fungi
Level 4	Answer
16. What is the process used by plants to convert sunlight into food?	Photosynthesis
17. The death of every member of a particular species is known as what?	Extinction
18. Which famous scientist introduced the idea of natural selection?	Charles Darwin
19. What do we call a plant that grows on another plant?	Epiphyte
20. What is the largest living structure on earth?	Great Barrier Reef

SCIENCE KNOWLEDGEATHON

Section 3 - Space and Astronomy

Level 1

Answer

1. What is the name of the biggest planet in our solar system? **Jupiter**
2. What is the name of the star closest to the Earth? **The Sun**
3. What is the name of the planet surrounded by rings? **Saturn**
4. Planet Earth is in which galaxy? **Milky Way**
5. What is the proper name for a shooting star? **A meteor**

Level 2

Answer

6. How many days does it take the Earth to orbit once around the sun? **365**
7. What is the force that holds us to the ground? **Gravity**
8. The "Gas Giants" are Jupiter, Saturn, Uranus and what other planet? **Neptune**
9. What is the sun mainly made up of? **Gas**
10. Who was the first person to walk on the moon? **Neil Armstrong**

Level 3

Answer

11. How old is the universe in years? **13.8 billion**
12. What is the great red spot on Jupiter? **A storm**
13. What is the most common type of star found in the Milky Way? **Red Dwarf stars**
14. How many moons are in our Solar System? **151**
15. What are comets mostly made of? **Dirty ice and dust**

Level 4

Answer

16. Mercury, Venus, Earth and Mars are classified as _____ planets **Terrestrial**
17. What is the closest star to the Sun? **Proxima Centauri**
18. What has a gravitational pull so strong that even light can't escape it? **Black Hole**
19. Which NASA space flight was the last manned mission to the moon? **Apollo 17**
20. What is the coldest place in the universe? **The Boomerang Nebula**

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Section 4 - Chemistry

Level 1	Answer
1. What do we usually call H ₂ O?	Water
2. What is the hardest thing on earth?	Diamond
3. What do we call ice crystals that form high in the sky?	Snowflakes
4. What can we use on our hands to destroy a virus like coronavirus?	Soap
5. When ice melts, it turns from a solid into a what?	Liquid
Level 2	Answer
6. Made of sodium and chloride, what do we put in or on our food?	Salt
7. What metal is an alloy (combination) of tin and copper?	Bronze
8. What are rocks containing metals called?	Ore
9. How many hydrogen molecules are there in H ₂ O?	2
10. Around how long do atoms last?	Almost forever
Level 3	Answer
11. What is the centre of an atom called?	Nucleus
12. Which NZer won a Nobel Prize for Chemistry?	Ernest Rutherford
13. At room temperature, what is the only metal that is in liquid form?	Mercury
14. What acid is protein made up of?	Amino acids
15. What is the table of the chemical elements arranged by atomic number?	Periodic Table
Level 4	Answer
16. What is the chemical symbol for potassium?	K
17. What is a substance that speeds up the rate of a chemical reaction?	Catalyst
18. What is the substance called that is being dissolved in a solution?	Solute
19. What two basic particles make up the nucleus of an atom?	Proton and neutron
20. What is the material that allows the flow of energy e.g. heat or electricity?	Conductor

SCIENCE KNOWLEDGEATHON

Section 5 - Earth Science

Level 1

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| 1. Clouds are made up of tiny droplets of what? | Water |
| 2. What is the hot liquid rock that flows out of a volcano called? | Lava |
| 3. In what season do some plants lose their leaves? | Autumn |
| 4. Where is most of the water on Earth stored? | Oceans |
| 5. What is the tallest mountain in the world? | Mt Everest |

Level 2

- | | |
|--|---------|
| 6. Cumulus, cirrus and stratus are types of what? | Cloud |
| 7. What is the imaginary line that runs through the centre of the earth? | Equator |
| 8. What is the area of low pressure at the centre of a hurricane called? | Eye |
| 9. Rainforests act as the Earth's lungs providing around 40% of the Earth's... | Oxygen |
| 10. What do we call a volcano that is neither active nor extinct? | Dormant |

Level 3

- | | |
|---|-----------------|
| 11. What is used to measure the intensity of earthquakes? | Richter Scale |
| 12. What do we call a scientist who studies fossils? | Palaeontologist |
| 13. What are formed from snow that doesn't melt even in the summer? | Glaciers |
| 14. Meteorology is the study of what? | Weather |
| 15. Most mountains are formed by the movement of what? | Tectonic Plates |

Level 4

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|---|---------------|
| 16. What is used to measure wind speed? | Anemometer |
| 17. Fossils are generally found in what type of rock? | Sedimentary |
| 18. What is it called when plants release water that turns into vapour? | Transpiration |
| 19. What layer of the atmosphere is where meteors burn up upon entry? | Mesosphere |
| 20. What layer of the Earth is the second layer from the surface? | Mantle |