

Titel:

Fake or fact – Science

Författare:

David Gaboriau



Reading Questions

Section 1 – Pages 4–24

1. Mosquitoes can taste with their feet.
2. Scientists recorded the lesser bulldog bat's squeaks at 137 decibels.
3. Both graphite and diamonds are made from carbon.
4. Humans are born with around 270 bones.
5. The sky appears blue because air molecules scatter sunlight.
6. Acids and alkalis cancel each other out.
7. Frogs vomit up their whole stomach and then swallow it again.
8. Scientists use nail varnish to stick samples down on microscope slides.
9. Ants breathe through tiny holes called spiracles.
10. Light can slow down when it passes through materials such as water or glass.

Section 2 – Pages 25–44

11. Custard is a non-Newtonian liquid.
12. The human body contains roughly 35 trillion bacteria cells.
13. Plants can defend themselves by prickling, stinging or poisoning animals. (Any one of these.)
14. Bees can see green, blue and ultraviolet light.

- 15. Vantablack is designed to absorb almost all light.
- 16. Some animals, such as the anglerfish, can make their own light.
- 17. A special network of blood vessels helps giraffes avoid fainting.
- 18. Water bears are also called tardigrades or moss piglets.
- 19. Bananas are slightly radioactive because they contain potassium.
- 20. Your nose and ears continue growing throughout your life.

Section 3 – Pages 45–64

- 21. Touchscreen phones respond because our fingers conduct electricity.
- 22. Sausages can be used because they also conduct electricity.
- 23. Eels begin their lives in the Sargasso Sea.
- 24. A dragonfly eye can contain up to 30,000 little eyes.
- 25. Different metals produce the different colours in fireworks.
- 26. Most human poo is made of bacteria.
- 27. French scientists were trying to understand why some people dislike cheese.
- 28. A kelvin is used to measure temperature.
- 29. Scurvy is caused by a lack of vitamin C.
- 30. Crocodiles have a membrane that holds their tongue in place.

Section 4 – Pages 65–104

- 31. The South American lungfish has much more DNA than humans.
- 32. Some scientists worried that the Large Hadron Collider might create a black hole.
- 33. A large core of molten iron gives the Earth its magnetic field.
- 34. Some plant seeds can survive for hundreds of years.
- 35. Leafcutter ants farm fungi.
- 36. The zombie-ant fungus controls ants and changes their behaviour.

- 37.** LASER stands for Light Amplification by Stimulated Emission of Radiation.
- 38.** Scientists can use bacteria to make medicines and food flavourings.
- 39.** People can see white strands of DNA.
- 40.** Humans can see visible light.
- 41.** The human body contains about 15,000 kilometres of blood vessels.
- 42.** Scientists feed mosquitoes with their own blood so they can study them.
- 43.** Tiny creatures called Demodex mites live in human eyelids.
- 44.** Great apes, such as gorillas and chimpanzees, have fingerprints.
- 45.** A molecule was named penguinone because its structure looks like a penguin.
- 46.** Clouds are not weightless because they contain water vapour.
- 47.** Flour can become explosive when fine flour dust mixes with air.
- 48.** The didgeridoo.

Activity 1 – Fact or Maybe Not?

- 1.** Fake
- 2.** Fact
- 3.** Fake
- 4.** Fake
- 5.** Fact
- 6.** Fake
- 7.** Fake
- 8.** Fake

Activity 2 – Science Word Match

- 1** – d
- 2** – b
- 3** – a

4 – c

5 – e

Lärarstöd

Centrala teman i boken

- Animals and the human body
- Materials and chemistry
- Light and electricity
- Plants and fungi
- Space and physics
- Scientific discoveries
- DNA and genetics
- Everyday science

Förslag på diskussionsfrågor

- Which fact surprised you the most?
- Which fact did you find hardest to believe?
- Which science topic would you like to learn more about?
- Which "Fake" statement did you think was true before reading the book?
- Which experiment or discovery did you find most interesting?

Förslag på fördjupning

Create a Science Fact File

Choose one fact from the book.

Include:

- a title
- three facts
- an illustration
- one question for the reader

Extension Challenge

Choose one statement from the book that was labelled Fake.

Write:

- what the statement said
- why it was fake
- what the real fact was

This activity helps students practise reading comprehension, fact-finding and fact-based writing using information from the book.