

Scientific Facts vs. Conspiracy Theories

Science Literacy · Answer Key · 25 Questions

1. Which mission successfully landed humans on the Moon for the first time in 1969?

- A) Apollo 11**
- B) Apollo 13
- C) Gemini 8
- D) Mercury-Redstone 3

2. What is the primary scientific explanation for the observed warming of the Earth's climate?

- A) Increased solar flares
- B) Greenhouse gas emissions**
- C) Changes in the Earth's orbit
- D) Volcanic activity

3. Vaccines function primarily by stimulating the body's immune system to recognize and fight which type of organisms?

- A) Pathogens**
- B) Red blood cells
- C) Neural networks
- D) Minerals

4. What scientific method is used to determine the age of ancient artifacts like fossils?

- A) Radiometric dating**
- B) Astrology
- C) Psychic reading
- D) Guesswork

5. The Earth is scientifically proven to be which of the following shapes?

- A) Flat disk
- B) Hollow sphere
- C) Oblate spheroid**
- D) Cube

6. What is the chemical symbol for water?

- A) CO₂
- B) H₂O**
- C) NaCl
- D) O₂

7. Fluoride is added to many public water supplies for what proven scientific purpose?

- A) To control mind behavior
- B) To prevent tooth decay**
- C) To color the water
- D) To improve vision

8. What celestial body is at the center of our solar system?

- A) The Earth
- B) The Moon
- C) The Sun**
- D) Mars

9. Which layer of the atmosphere protects life on Earth from harmful ultraviolet radiation?

- A) Troposphere
- B) Ozone layer**
- C) Mesosphere
- D) Exosphere

10. What causes the phenomenon of seasons on Earth?

- A) Distance from the sun
- B) The Earth's axial tilt**
- C) The rotation of the moon
- D) Ocean currents

11. Which of these is a proven scientific fact regarding the 1969 Moon landing?

- A) It was filmed in a studio
- B) It was a hoax
- C) The lunar rock samples were analyzed by scientists globally**
- D) It never happened

12. What is the primary cause of tides on Earth?

- A) The Moon's gravitational pull**
- B) Undersea volcanoes
- C) Solar wind
- D) Submarine earthquakes

13. Which scientist is famously associated with the theory of general relativity?

- A) Isaac Newton
- B) Albert Einstein**
- C) Charles Darwin
- D) Nikola Tesla

14. What do scientists use to track the movement of tectonic plates?

- A) GPS technology**
- B) Crystal balls
- C) Weather balloons
- D) Magnetic compasses

15. What is the main component of the air we breathe?

- A) Oxygen
- B) Nitrogen**
- C) Carbon Dioxide
- D) Argon

16. Why is the sky blue during a clear day?

- A) Reflection of the ocean
- B) Rayleigh scattering of sunlight**
- C) The color of space
- D) Chemical pollution

17. What is the process by which plants convert light energy into chemical energy?

- A) Respiration
- B) Photosynthesis**
- C) Digestion
- D) Fermentation

18. Which of these describes the scientific consensus on the shape of the Earth?

- A) It is a flat plane
- B) It is a sphere flattened at the poles**
- C) It is perfectly circular
- D) It is a hexagon

19. What do scientists study to understand the history of Earth's climate over thousands of years?

- A) Ice cores**
- B) Horoscopes
- C) Ancient coins
- D) Mythology

20. What is the basic building block of all matter?

- A) The atom**
- B) The cell
- C) The pixel
- D) The photon

21. What instrument is used to observe distant stars and galaxies?

- A) Telescope**
- B) Microscope
- C) Stethoscope
- D) Periscope

22. Which law of motion states that for every action, there is an equal and opposite reaction?

- A) Newton's Third Law**
- B) Einstein's Law
- C) Kepler's Law
- D) Hubble's Law

23. What is the speed of light in a vacuum approximately?

- A) 300,000 km/s**
- B) 1,000 km/s
- C) 50,000 km/s
- D) 1,000,000 km/s

24. How do we know the age of the Earth is approximately 4.5 billion years?

- A) Radioactive decay**
- B) Historical documents
- C) Cultural folklore
- D) Guessing

25. Which field of science studies the composition and structure of the Earth?

- A) Geology**
- B) Astrology
- C) Alchemy
- D) Palmistry