Space Perspectives on Climate

Climate Change · Answer Key · 15 Questions

1. Which planet has a runaway greenhouse effect that makes it the hottest in our solar system?

A) Mars
B) Venus
C) Jupiter
D) Saturn

2. What specialized tools do scientists use to monitor Earth's climate change from space?

A) Satellites
B) Telescopes
C) Space shuttles
D) Lunar landers

3. What is the main source of energy that powers Earth's climate and weather systems?

A) The Moon
B) The Sun
C) Volcanic heat
D) Radioactive decay

4. Which gas, found in the atmospheres of both Earth and Venus, is primarily responsible for trapping heat?

A) Oxygen
B) Nitrogen
C) Carbon dioxide
D) Helium

5. Earth's atmosphere acts like a blanket to keep the planet warm; what is this process called?

A) The Greenhouse Effect
B) The Ozone Hole
C) The Solar Flare
D) The Lunar Cycle

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6. Which layer of Earth's atmosphere, studied from space, contains the ozone that protects us from solar radiation?

A) Troposphere
B) Stratosphere
C) Mesosphere
D) Thermosphere

7. What do satellites measure to show the impact of climate change on Earth's oceans?

A) Moon phase changes
B) Star brightness
C) Sea level rise
D) Meteor impact sites

8. Which planet has an atmosphere so thin that it cannot retain heat like Earth, resulting in very cold temperatures?

A) Venus
B) Mars
C) Mercury
D) Jupiter

9. What term describes the amount of solar radiation reflected by a planet's surface back into space?

A) Albedo
B) Orbit
C) Gravity
D) Eclipse

10. Satellites tracking climate change observe the melting of large ice masses; what are these masses called?

A) Asteroids
B) Glaciers
C) Planets
D) Nebulae

11. The study of Earth as a system from space is often referred to as what type of science?

A) Earth System Science
B) Astrology
C) Rocket Engineering
D) Quantum Physics

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12. Which specific data do space agencies track to observe changes in Earth's vegetation due to climate?

A) Color/Greenness
B) Rock composition
C) Magnetic field strength
D) Wind speed

13. What is the primary way that heat from the Sun reaches Earth through the vacuum of space?

A) Convection
B) Radiation
C) Conduction
D) Reflection

14. Compared to Earth, why does Mars have a very weak greenhouse effect?

A) It is too close to the Sun
B) Its atmosphere is very thin
C) It has no surface
D) It spins too fast

15. Climate change research from space often monitors 'aerosols'; what are these?

A) Tiny particles in the atmosphere
B) Pieces of space junk
C) Types of stars
D) Lunar rocks

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