



Earth and Space Science

Test Pack

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EARTH AND SPACE SCIENCE • PRETEST

Circle the letter of the correct answer to each of the following questions and statements.

1. Which of the following would be studied by a geologist?
 - a. Earth's orbit around the Sun
 - b. a flood in California
 - c. a hurricane in New England
 - d. a volcanic eruption in Italy

2. According to the Big Bang Theory, when did the Big Bang occur?
 - a. 50 million years ago
 - b. 130 million years ago
 - c. between 3 and 5 billion years ago
 - d. between 12 and 15 billion years ago

3. What are sunspots?
 - a. extra-hot regions on the surface of the Sun
 - b. magnetic storms on the surface of the Sun
 - c. solid areas on the surface of the Sun
 - d. thicker areas in the Sun's atmosphere

4. What can occur when solar wind interacts with Earth's magnetic field?
 - a. sunspots
 - b. aurora
 - c. earthquakes
 - d. hurricanes

5. Which of the following is not one of the Jovian planets?
 - a. Jupiter
 - b. Neptune
 - c. Pluto
 - d. Saturn

UNIT 2 TEST • THE ATMOSPHERE AROUND US

Circle the letter of the correct answer to each of the following questions.

1. Which of the following is a uniform gas?
 - a. carbon dioxide
 - b. ozone
 - c. oxygen
 - d. water vapor

2. Which of the following gases was not an important part of Earth's atmosphere until after the development of the first life forms?
 - a. carbon dioxide
 - b. nitrogen
 - c. oxygen
 - d. water vapor

3. What gas forms the largest part of Earth's atmosphere?
 - a. argon
 - b. methane
 - c. nitrogen
 - d. oxygen

4. How is the atmosphere principally warmed?
 - a. by cosmic rays
 - b. by heat released from volcanoes
 - c. directly by the Sun's rays
 - d. indirectly by the ground, which has first absorbed energy in the form of light

5. Which of the following is a greenhouse gas?
 - a. carbon dioxide
 - b. nitrogen
 - c. oxygen
 - d. ozone

6. What are isobars?
- a. closed curves on a weather map that join points of equal air pressure
 - b. closed curves on a weather map that join points of varying air pressure
 - c. closed curves on a weather map that join points of equal wind speed
 - d. closed curves on a weather map that join points of varying wind speed
-

7. What is the air pressure at sea level?
- a. zero
 - b. 1013.25 millibars
 - c. 2500.05 millibars
 - d. 10,000 millibars
-

8. In general, what type of weather does a low-pressure area bring?
- a. clear skies
 - b. cloudy skies
 - c. high temperatures
 - d. rainy weather
-

9. In general, what type of weather does a high-pressure area bring?
- a. clear skies
 - b. cloudy skies
 - c. high temperatures
 - d. rainy weather
-

10. What is the term for the center of a hurricane?
- a. eye
 - b. nimbus
 - c. peak
 - d. shear

EARTH AND SPACE SCIENCE • POSTTEST

Circle the letter of the correct answer to each of the following questions.

1. Which parts of the electromagnetic spectrum are visible to the naked eye?
 - a. gamma rays
 - b. light waves
 - c. microwaves
 - d. all of the above

2. Which type of telescope collects light waves with a curved mirror?
 - a. any optical telescope
 - b. a radio telescope
 - c. a reflecting telescope
 - d. a refracting telescope

3. Why has the Hubble Space Telescope been most useful?
 - a. It is above the Earth's atmosphere.
 - b. It is much bigger than other telescopes.
 - c. It is a better telescope than even the best on Earth.
 - d. It can see farther than any other telescope.

4. Which of the following is NOT one of the terrestrial planets?
 - a. Earth
 - b. Jupiter
 - c. Mars
 - d. Venus

5. What are comets made of?
 - a. collections of meteoroids
 - b. hydrogen gas
 - c. ice and dust
 - d. rock