



# Earth and Space Science

Test Pack

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**EARTH AND SPACE SCIENCE • PRETEST**

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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

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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

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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

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

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

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**UNIT 2 TEST • THE ATMOSPHERE AROUND US**

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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?
- closed curves on a weather map that join points of equal air pressure
  - closed curves on a weather map that join points of varying air pressure
  - closed curves on a weather map that join points of equal wind speed
  - closed curves on a weather map that join points of varying wind speed
- 
7. What is the air pressure at sea level?
- zero
  - 1013.25 millibars
  - 2500.05 millibars
  - 10,000 millibars
- 
8. In general, what type of weather does a low-pressure area bring?
- clear skies
  - cloudy skies
  - high temperatures
  - rainy weather
- 
9. In general, what type of weather does a high-pressure area bring?
- clear skies
  - cloudy skies
  - high temperatures
  - rainy weather
- 
10. What is the term for the center of a hurricane?
- eye
  - nimbus
  - peak
  - shear

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**EARTH AND SPACE SCIENCE • POSTTEST**

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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

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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

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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.

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

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