

UNIT 6: NEW FRONTIERS**Vocabulary:** Fill the gaps with the words given in the box

advances	aspects	atmosphere	diameter	hazy	perseverance
aspiring	degree	requirements	landscapes	dust	equipped with
seasonal	chance	astronomers	leadership	wonder	lead to
geysers	plains	fundamental	satellites	proof	
detected	valleys	background	instruments	vast	

1. Yellowstone National Park is famous for its _____.
2. Wind blows sand and dirt to cause a _____ storm.
3. Water is _____ for all living things.
4. They own a farm on the eastern _____ of Colorado.
5. The rover was _____ useful instruments to study Mars.
6. The _____ of Mars and Earth are similar in certain places.
7. The _____ of a circle is equal at all points.
8. Technological _____ have allowed scientists to study the landscape of Mars.
9. Some _____ of the Earth and Mars are similar.
10. Scientists are looking for _____ that life could exist on Mars.
11. Scientists _____ signs of water under the surface of Mars.
12. Scientific _____ have shown that water exists on Mars.
13. Polar caps are _____ areas covered with ice.
14. People _____ if there is life beyond Earth.
15. One of the _____ for life as we know it is water.
16. New technologies will _____ more discoveries on Mars.
17. Mars has tall mountains and deep _____.
18. If you have _____, you're determined to reach your goal.
19. Gases in the air make up the Earth's _____.
20. Both Earth and Mars tilt on their axes at an angle of about 24 _____.
21. Astronauts need to have a strong _____ in maths and science.
22. An _____ astronaut wants to travel in space one day.
23. Alyssa Carson had the _____ to go to Space Camp.
24. A successful space mission takes patience and strong _____.
25. A _____ sky is darkened by clouds and dust.
26. _____ changes include variations in temperature and the amount of sunlight.
27. _____ are looking for proof of life beyond Earth.
28. _____ in outer space help us to learn more about the planets.

Grammar

Exercise 1: Give the correct form of the verbs in the bracket:

1. The Milky Way is a barred spiral galaxy, about 100,000 light-years across. If you _____ (look) down on it from the top, you _____ (see) a central bulge surrounded by four large spiral arms that wrap around it.
2. If the Big Bang _____ (not happen), the Universe _____ (not have) the beginning.
3. If the Earth _____ (stop) rotating about its axis but _____ (continue) revolving around the sun, the length of a year _____ (remain) the same, but a day _____ (last) as long as a year.
4. If the core of the Earth _____ (cool) down completely, the planet _____ (grow) cold and dead.
5. If the asteroid _____ (not hit) the Earth, dinosaurs _____ (not become) extinct.
6. If the Moon _____ (be) farther from Earth, we _____ (have) smaller tides.
7. If Apollo 10, the fastest manned spacecraft, _____ (travel) to the Sun, it _____ (take) about 156 days to reach the Sun.

Exercise 2: Fill in the words in brackets as adjective or adverb

The planet Uranus

Like Jupiter and Saturn, Uranus is a gas giant. It is believed that the _____ (**extreme**) tilt of Uranus' axis may have been caused by a large moon that was _____ (**slow**) pulled away from the planet by another _____ (**large**) planet long ago when our Solar System was _____ (**new**) formed. It is thought that the gravitational pull of this moon moving away from Uranus may have caused it to tilt on its side. Like Saturn, the _____ (**thick**) atmosphere of Uranus is made up of methane, hydrogen and helium. But Uranus is an _____ (**extreme**) cold planet. It has been called the "ice giant." It is believed that Uranus is made up of rock and ice and has a _____ (**large**) rocky core. Because of the _____ (**tremendous**) planetary pressure of Uranus, there could _____ (**possible**) be trillions of large diamonds in or on the surface of this planet. Scientists also believe that on the surface of Uranus there may be a huge ocean. And _____ (**interesting**), it is thought that the temperature of this ocean may be _____ (**extreme**) hot, maybe even as (**hot**) as 5000 degrees Fahrenheit (2760 Celsius).