



Unit 11 • The Earth and Space: rocks and planets

Name _____ Class _____ Roll no. _____ Date _____ Marks _____ / 33

1 Key words

[4]

Fill in the blanks with words from the box. Two words in the box are not needed. Each blank carries 0.5 mark.

asteroids comet dwarf planet fossils granite igneous metamorphic satellite
sedimentary solar system

Rock formed when hot, molten magma or lava cools and hardens is _____ rock. Rock formed from layers of sand, mud and shells pressed and cemented together is _____ rock, and it may contain _____. Any rock changed by great heat and pressure deep inside the Earth, without melting, becomes _____ rock. The Sun and all the heavenly bodies that go round it together form the _____. A heavenly body that goes round a planet is a _____. Rocky bodies, much smaller than planets, most of them between Mars and Jupiter, are _____. Since 2006, Pluto has been called a _____.

2 Multiple choice

[5]

Choose the correct option for each of the following questions.

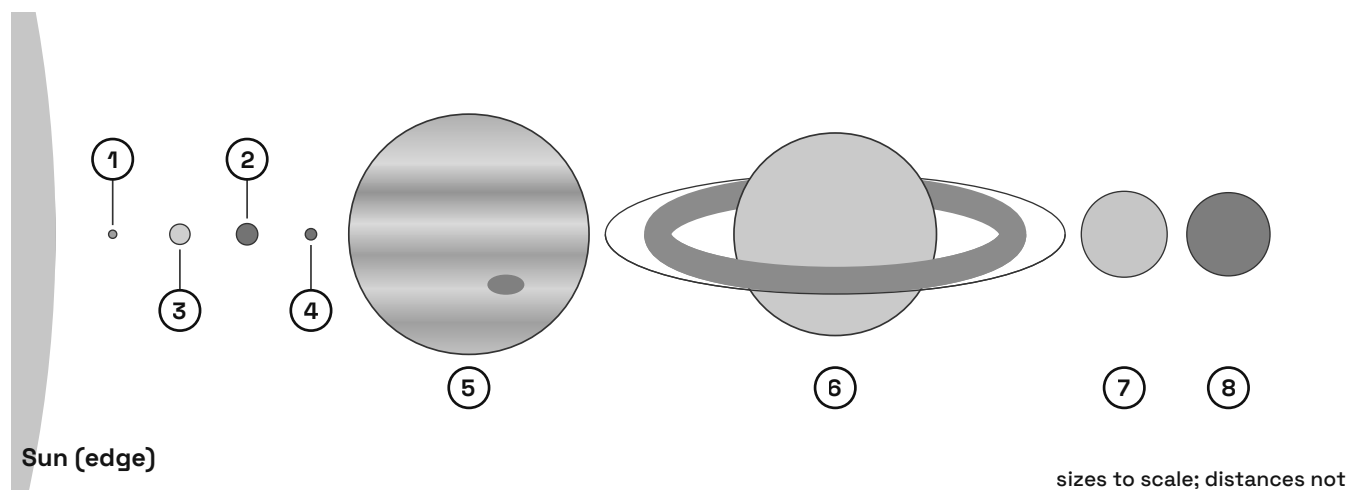
- i. Which rock is used to roof houses? [1]
a. sandstone b. limestone
c. conglomerate d. slate
- ii. What type of rock is marble? [1]
a. sedimentary b. metamorphic
c. igneous d. volcanic
- iii. Which list gives the metamorphic forms of graphite, limestone and sandstone, in that order? [1]
a. diamond, quartzite and slate b. marble, diamond and quartzite
c. diamond, marble and quartzite d. quartzite, marble and diamond
- iv. Which list gives planets in order of distance from the Sun, nearest first? [1]
a. Mercury, Venus, Earth and Mars b. Uranus, Saturn, Mars and Earth
c. Earth, Mars, Venus and Mercury d. Neptune, Uranus, Mercury and Venus
- v. Read the statement and the two arguments, and choose the right option. [1]
Statement: Venus is the hottest planet; that is why it is red.
Argument 1: It is also called the morning star and the evening star.
Argument 2: It has two satellites, Deimos and Phobos.
a. The statement is correct, but both arguments are incorrect.
b. The statement is incorrect, but both arguments are correct.
c. Only argument 1 is correct.
d. Only argument 2 is correct.



3 Label the diagram

[4]

The diagram shows the planets, their sizes to scale. Write the names of the planets numbered 1 to 8. Each carries 0.5 mark.



1. _____
3. _____
5. _____
7. _____

2. _____
4. _____
6. _____
8. _____

4 Very short answers

[4]

Write very short answers to the following questions.

- a. Which rock is used to make cement?

[1]

- b. Which planet is the farthest from the Sun?

[1]

- c. Which planet has two satellites, Phobos and Deimos?

[1]

- d. Rajan finds a stone with a fossil shell in it. What type of rock is it most likely to be?

[1]



5 Short answers

[10]

Write short answers to the following questions.

- a. Write any two differences between sedimentary rock and igneous rock.

[2]

- b. Write any two differences between a star and a planet.

[2]

- c. What type of rocks are granite, pumice and obsidian? For what purposes are they used?

[2]

- d. Which planet did the International Astronomical Union (IAU) remove from the list of planets? Give one reason for the decision.

[2]

- e. Write any two characteristics of the Earth.

[2]

6 Long answer

[4]

Write a long answer to the following question.

Describe in short how rocks form.



7 Think

[2]

Think, then answer.

Mercury is closer to the Sun than Venus, yet Venus is the hottest planet. Why?

8 Activity: Sort your rocks (Activity 11.2)

(not marked)

Collect three different rocks from around your house or school. Look at each closely, and test its hardness by trying to scratch it with an iron nail.

Rock	Hard or soft	Color	Layered or not layered	Rough or smooth
1				
2				
3				

Which of your rocks could be sedimentary? Why?

