

Science
Mercury, Venus, Mars
Book: Space
Pages 26-37

Students: Fill in the answers and return for assessment

Everything here is based on our Curriculum Visions Space book.

In this segment, we are going to learn more about the planets Mercury, Venus and Mars.

You will need to go to pages 26-29 of the book.

Part 1

Why is Mercury always hot?

What is the difference in the surface temperature between noon and just before dawn?

Why does Mercury have this temperature difference?

Answer ...

Because it is the closest planet to the Sun.

$950 - 373 = 527$ degrees C.

The side facing the Sun heats up but the side facing away from the Sun loses heat quickly.

Now turn to pages 30-33 of the book.

Part 2

Could we breathe the air on Venus? Why or why not?

Why is Venus hotter than Mercury, even though it is further from the Sun?

Answer ...

No. The atmosphere is made up of carbon dioxide and sulphuric acid, which are poisonous to us.

The carbon dioxide in Venus' atmosphere traps heat from the Sun, which gives it a very hot temperature.

Now turn to pages 34-37 of the book.

Part 3

Why is Mars sometimes 207 million km from the Sun and sometimes 250 million km from the Sun?

Why is there so much dust in the air on Mars?

Answer ...

Because Mars travels around the Sun in an oval path.

Mars has high winds and low gravity, so the dust is easily picked up and carried all around the planet.

Part 4

Which of these three planets would you most like to visit, and why?

Answer ...

Students' own answers.

That is the end of this worksheet, and you can now turn to another one. Also, find out if your teacher has left you any other worksheets or special instructions on your school website.

If you are interested in this topic, continue to browse the book and watch our amazing videos. They start right on the book cover.

Or you may want to see related books. If so just go to the top of the screen, select science, and from the page that opens choose Space.