

Science

The parts of a plant - leaves and flowers

Book: The Plant Book

Pages 10-19

Students: Fill in the answers and return for assessment

Everything here is based on our Curriculum Visions book The Plant Book.

In this segment, we are going to learn about leaves and flowers.

You will need to go to pages 10-11 of the book.

Part 1

Draw a picture of a leaf and label the different parts. Make sure you know what each part is for.

Why are leaves arranged in different patterns?

Answer ...

Leaves are arranged in patterns so that all the leaves can get as much light as possible.

Now turn to pages 12-13 of the book.

Part 2

What is the role of the following parts of a leaf:

Cells

Chlorophyll

Leaf pores

Guard cells

Cellulose

Answer ...

Cells: bags of material

Chlorophyll: green substance that traps sunlight and uses it to make food.

Leaf pores: hole on the underside of the leaf

Guard cells: they open and close the pores

Cellulose: a tough material that makes up the cell wall

Now turn to pages 14-15 of the book.

Part 3

Complete the following 'equation':

Water + _____ + _____ + energy from _____ =

What does the plant also give off in the process above?

Answer ...

Water + minerals + carbon dioxide + energy from sunlight = tissues
Oxygen

Part 4

How is food stored in the plant?

Answer ...

In the roots, stems and fruit.

Also accept: In the form of starch.

Now turn to pages 16-17 of the book.

Part 5

Draw a picture of a flower and label the parts. Make sure you know what each part is for.

Answer ...

Students' own drawings.

Now turn to pages 18-19 of the book.

Part 6

What are the two main ways that pollen can be shared between plants?

What happens after a male pollen grain reaches the female part of a different plant?

Answer ...

Pollen can be carried by wind or insects.

After the male pollen grain reaches the female part of a different plant, fertilisation occurs - they combine, and seeds begin to form at the base of the flower. The base swells, and fruit develops around the seeds.

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 The Plant Book.