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Unit 1 Plants and humans as organisms

1.1 Labelling a diagram of a plant

This exercise relates to 1.1 Plant organs from the Coursebook.

In this exercise, you practise labelling a diagram carefully.

This diagram shows a plant.

1 Add these labels to the correct parts of the plant.



Remember



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1.2 Functions of human organs

This exercise relates to 1.2 Human organ systems from the Coursebook.

In this exercise, you label some human organs with their functions. Follow the guidelines about labelling from exercise 1.1.

Here is a list of the **functions** of four of the organs that are shown in the diagram below.

Remember

The function of something is the job that it does.

- The pumps blood around the body.
- The coordinates actions of different parts of the body.
- The helps to digest food.
- The absorb oxygen from the air.
- **1** Use the list of functions to label the diagram. Complete each label by adding the name of the organ.



2 Now add at least one more label of your own. Your label should name the organ and describe its function.



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Sam now pulls the forcemeter with the thumb of his right hand, and then with his other three fingers.

These pictures show the forcemeter scale for each.



2 Write the readings in the correct spaces in Sam's results table. (The reading for Sam's first finger on his right hand is on the previous page.)

The results for his left hand are already completed.

	Force in N	
	Right hand	Left hand
thumb		25
first finger		25
second finger		19
third finger		16
little finger		17

Remember

N is the symbol for **newtons**.

The unit, N, is in the heading of the table, so you do not need to write it again.



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Unit 1 Plants and humans as organisms



1.4 Muscles experiment

This exercise relates to **1.5 Muscles** from the Coursebook.

In this exercise, you complete the headings and readings in a results chart. Then you think about making conclusions from a set of results.

Elsa wants to find out whether the muscles in her right hand or her left hand tire more quickly. Elsa and Anna do an experiment.

Elsa holds a clothes peg between the thumb and first finger of her right hand.

She uses the muscles in her thumb and finger to open and close the peg, as fast as she can.

In the girls' experiment, this is what they do:

• Elsa opens and closes the peg as many times as she can for five minutes.



• Anna uses the timer and counts the number of times Elsa does this in each minute.

Then they do it again, but this time Elsa holds the clothes peg in her left hand.

Here are the results that Anna writes down:

Right hand	
lst minute: 84 3rd minute: 83 5th minute: 73	2nd minute: 85 4th minute: 76
Left hand lst minute: 83 3rd minute: 71 5th minute: 52	2nd minute: 84 4th minute: 69

1 Complete the results table for Elsa's and Anna's experiment.

Time in	Number of times opened and closed	clothes peg was
	 hand	 hand
I		
2		

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> 2 Elsa and Anna make some **conclusions** from their results. Tick the **one** conclusion that is correct.

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