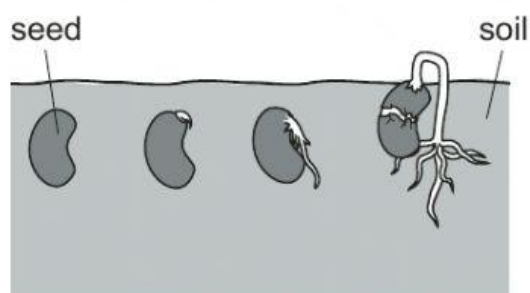


11 Plants have a life cycle.

One part of the life cycle is shown in the diagram.



(a) Write down the name of this part of the life cycle.

..... [1]

(b) What do plants need for this part of the life cycle?

.....
..... [1]

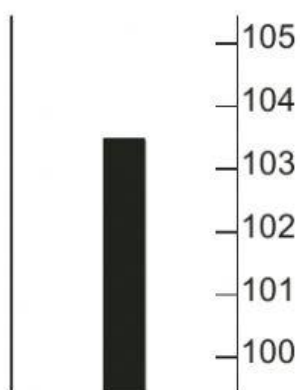
12 Hassan has a sample of a liquid.

- (a) Name the piece of equipment he uses to accurately measure 50 cm^3 of this liquid.

..... [1]

- (b) Hassan heats the liquid until it boils.

Look at the reading on the thermometer when the liquid is boiling.



Write down the boiling point of the liquid.

..... [1]

- 13 Jamila uses a sound level meter to measure the volume of sound in different places.

Here are her results.

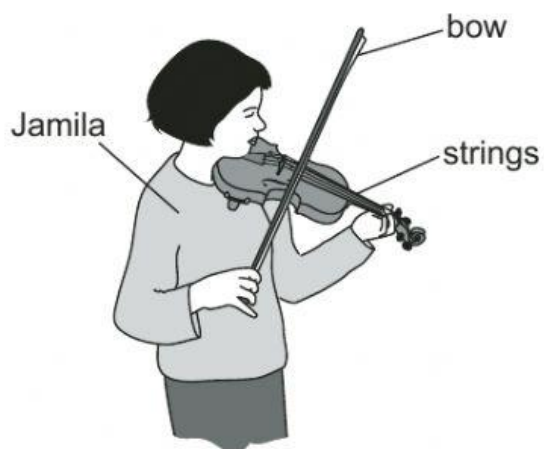
place	volume of sound in
garden	30
playground	71
road	65

- (a) Jamila has **not** put the unit for the volume of sound into the table.

Complete the table.

[1]

(b) Jamila plays the violin.



What does Jamila do to change the pitch of the note she is playing?

Tick (✓) the correct **three** answers.

pulls the bow across the string harder

☐

pulls the bow across the string softer

☐

uses a thicker string

☐

uses a thinner string

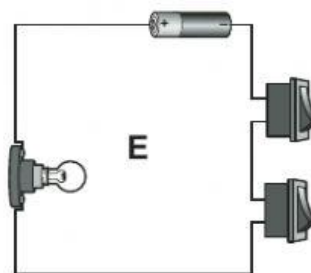
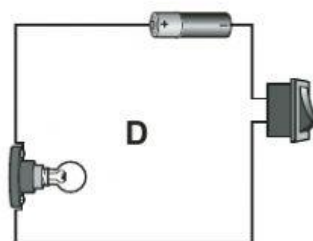
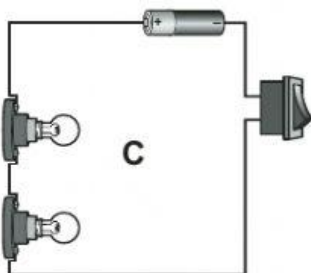
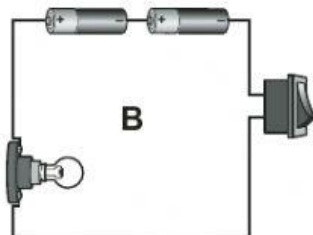
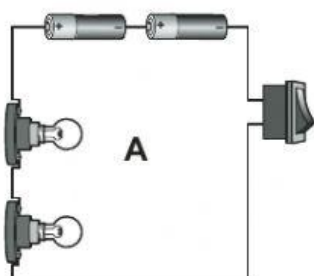
☐

uses her fingers to change the length of the string

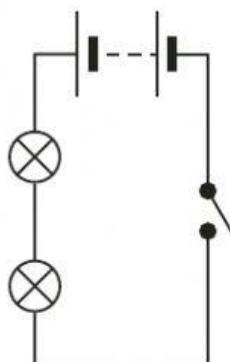
☐

[2]

14 Here are five electrical circuits.



(a) Chen draws this electrical circuit diagram.



Which electrical circuit has Chen drawn?

Circle the correct answer.

A B C D E

[1]

(b) Which electrical circuit has the brightest lamp?

Circle the correct answer.

A B C D E

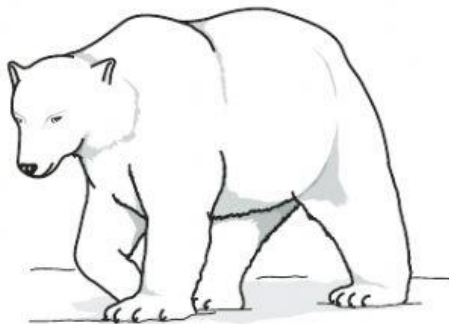
[1]

(c) What is the name of this electrical symbol?



[1]

15 Look at the picture of a polar bear.



The polar bear is suited to its environment.

(a) Complete the sentence.

The polar bear has thick fur to
..... [1]

(b) Complete the sentence.

The polar bear does **not** sink into the snow because it has
..... [1]