

DEPARTMENT FOR CURRICULUM,
LIFELONG LEARNING AND EMPLOYABILITY
Directorate for Learning and Assessment Programmes
Educational Assessment Unit

Annual Examinations for Primary Schools 2020

Year 4

SCIENCE

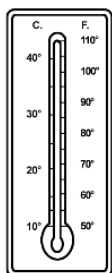
Time: 60 minutes

Name: _____

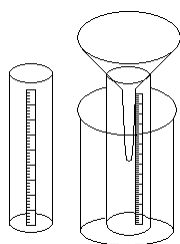
Class: _____

1. The pictures below (A to D) show different weather instruments.

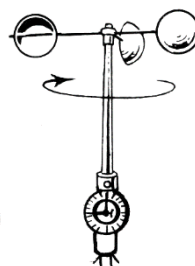
a) Write the name of the weather instrument under each picture in the table below.



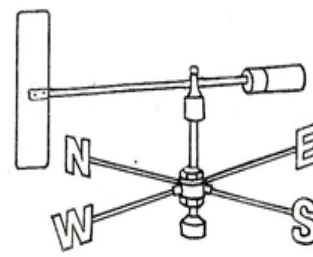
A



B



C



D

(4 marks)

b) Match the weather instrument (A to D) to the descriptions below.

Write the letter in the table below. The first one is done as an example.

| | | | |
|-------------------------------|---------------------------|--------------------------|----------------------------------|
| A | | | |
| Measures the air temperature. | Shows the wind direction. | Measures the wind speed. | Measures the amount of rainfall. |

(3 marks)

c) Underline the average UV index during the month of July in Malta.

UV 5

UV 11

UV 2

(1 mark)

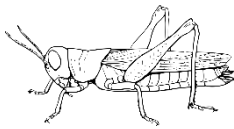
2. Write true (T) or false (F) for each statement about plants, below.

- a) Water in a plant is taken up from the leaves.
- b) The stem holds the plant upright.
- c) The Carob Tree (Ħarruba) and the Aleppo Pine (Żnuber) are common trees found in Malta.
- d) Roots hold the plant in place.
- e) Plants only need air and water to grow.

| True | False |
|------|-------|
| | |
| | |
| | |
| | |
| | |

(5 marks)

3. The pictures below show living things.



grasshopper



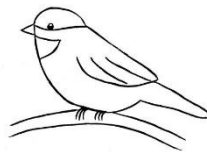
plant



owl



rabbit



bird



mouse

a) Use the words under each picture to write **two different** food chains in the spaces below. The word 'plant' and 'owl' can be used more than once.

i. Food chain A:

_____ → _____ → _____ (3 marks)

ii. Food chain B:

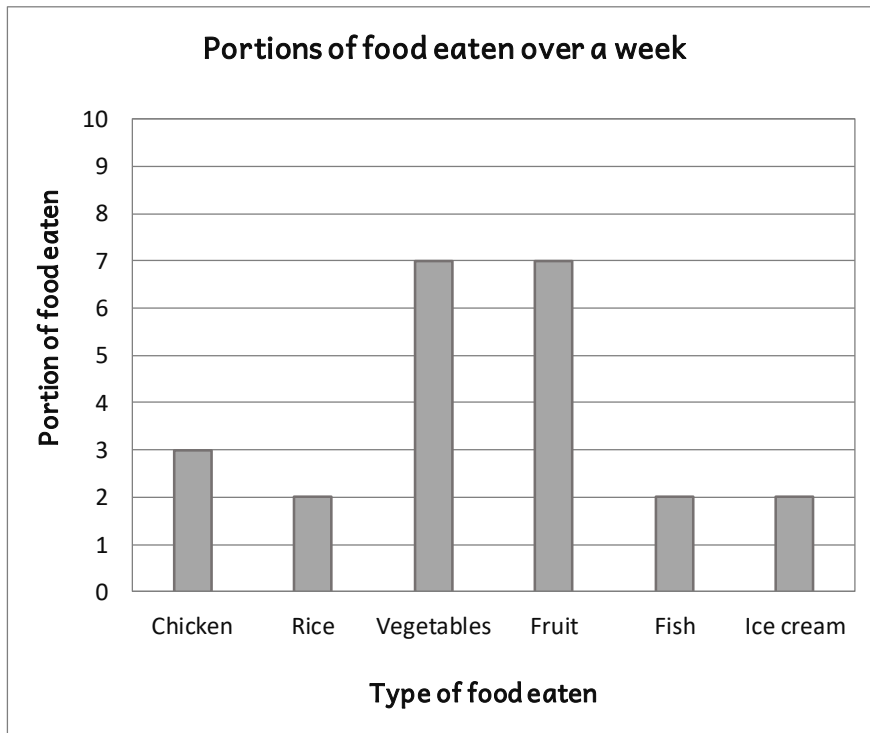
_____ → _____ → _____ (3 marks)

b) What do the arrows in a food chain show?

_____ (1 mark)

4. Humans eat food coming from plants and animals.

The bar graph below shows portion of food Maria eats over a week.



a) From the bar graph above, name **two** food types which come from **plants**.

(2 marks)

b) Does Maria follow a balanced diet?

Tick (✓) the correct box.

Yes

No

(1 mark)

c) Give a reason to support your answer in question (b).

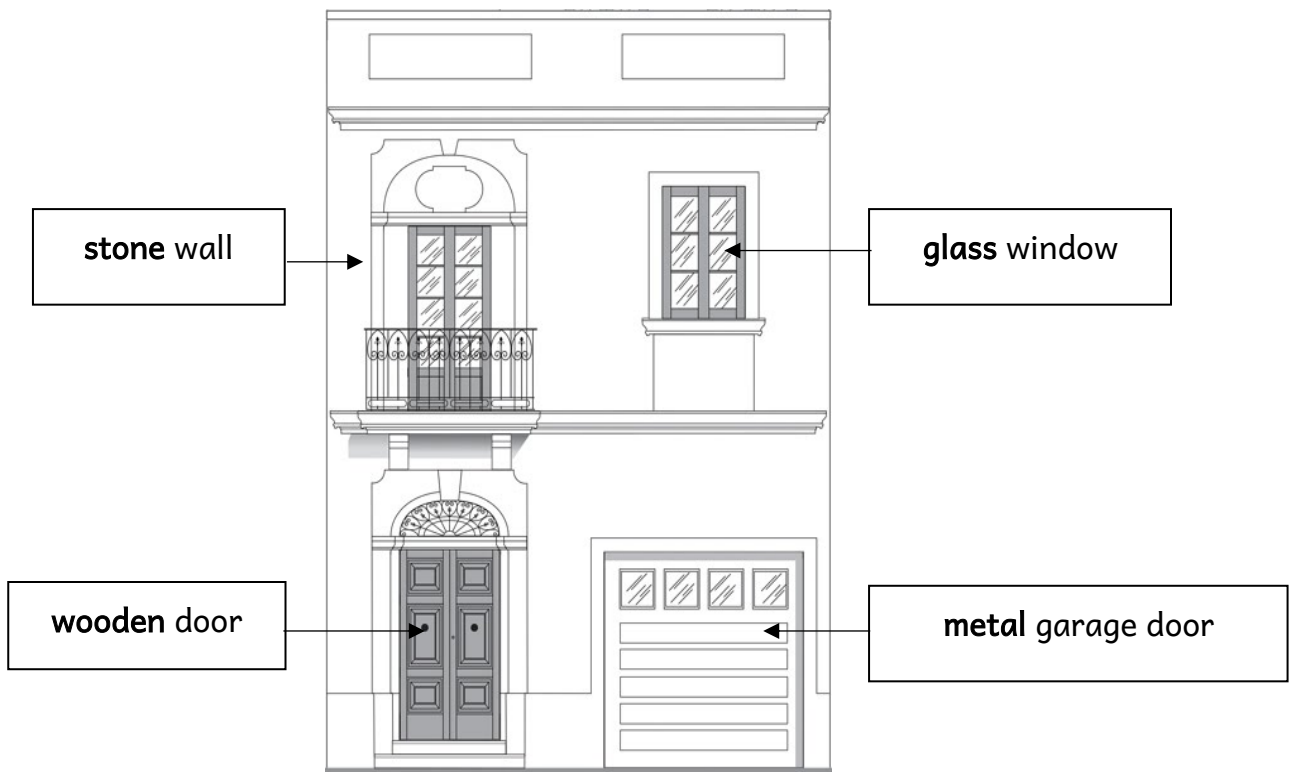
(1 mark)

d) Maria would like to have an ice cream.

What can she do to make sure that any germs on her hand do not touch her mouth?

(1 mark)

5. The picture below shows the front part of a Maltese house.



a) Identify whether the materials used in building the house are natural or man-made materials.

Tick (✓) the correct column in the table below.

- i. stone wall
- ii. glass window
- iii. wooden door
- iv. metal garage door

| Natural | Man-made |
|---------|----------|
| | |
| | |
| | |
| | |

(4 marks)

b) The house in diagram above is built near the seaside.

i. Predict which of the following might rust.

Underline the correct answer.

stone wall glass window wooden door metal garage door

(1 mark)

ii. Is rusting a reversible or irreversible change?

Tick (✓) the correct answer.

reversible

irreversible

(1 mark)

c) Which of the materials below would have the **least friction** and would therefore be the **best** material for a door step.

Tick (✓) the correct answer.

glass

stone

metal

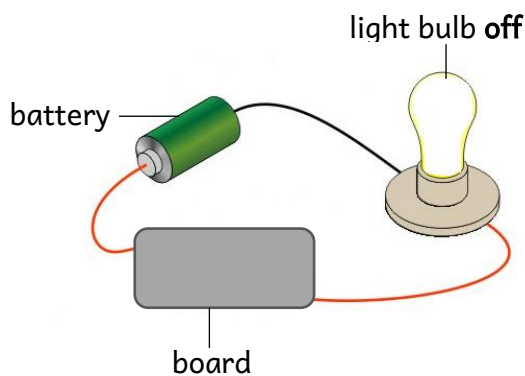
(1 mark)

6. Max found two circuits (A and B) with a light bulb, a battery and a board, as in the diagrams below.

The light bulb in Circuit A is **off**. The light bulb in Circuit B is **on**.

a) Predict which object is hidden behind the board for Circuit A and Circuit B.

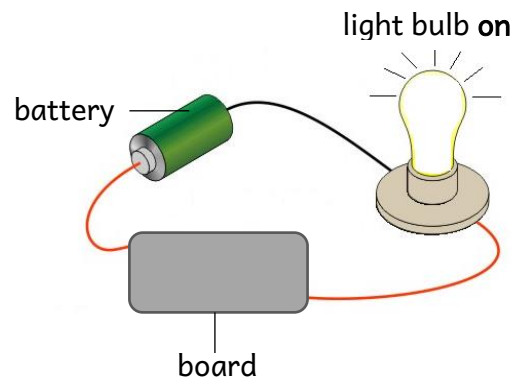
Tick (✓) one object for each circuit.



Circuit A

metal coin

wooden peg



Circuit B

metal coin

wooden peg

(2 marks)

b) Give a reason why the light bulb in **circuit B** is on.

(2 marks)

7. Our senses help us gather information about the world around us.

a) Match the **sense** used in Column A to the **body part** in Column B in the table below.

| | Column A | | Column B |
|---|----------|--|----------|
| A | see | | nose |
| B | feel | | eyes |
| C | taste | | hands |
| D | smell | | tongue |

(4 marks)

b) The instruments in the pictures below produce sound in different ways.

Match the instrument to show how sound is produced.

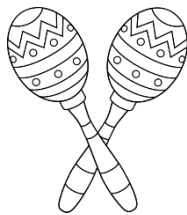
Write the correct word from the word bank below, under each instrument.

The first one is done as an example.

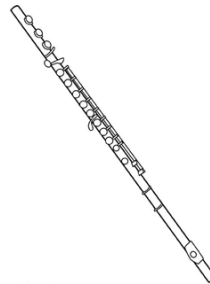


drum

hit



shakers



flute



guitar

Word bank

| | | | |
|----------------|------|-------|-------|
| hit | blow | shake | pluck |
|----------------|------|-------|-------|

(3 marks)

c) Give **one** other everyday example to show how sound can be produced.

(2 marks)

8. Look at the pictures below.

a) Put a tick (✓) under the object which is a source of light and put a cross (✗) under the object which is **not** a source of light.



tea cup



fire



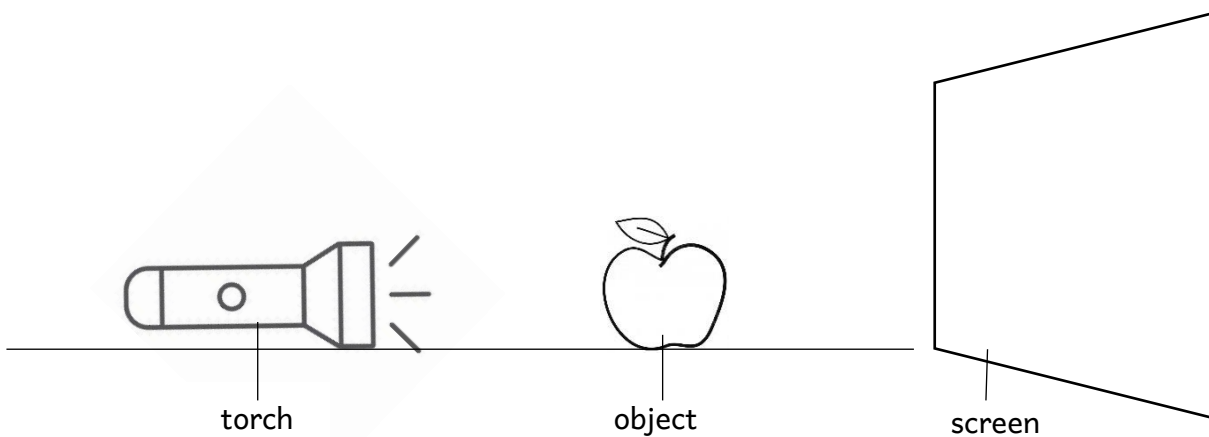
bulb



clock

(4 marks)

b) Look at the diagram below.



i. On the diagram above, mark with an **X** the place where the shadow will appear.

(2 marks)

ii. What will happen to the shadow if the torch is moved closer to the object?

Tick (✓) the correct answer from the choice below.

- The shadow disappears.
- The shadow becomes smaller.
- The shadow becomes bigger.
- The shadow will remain the same.

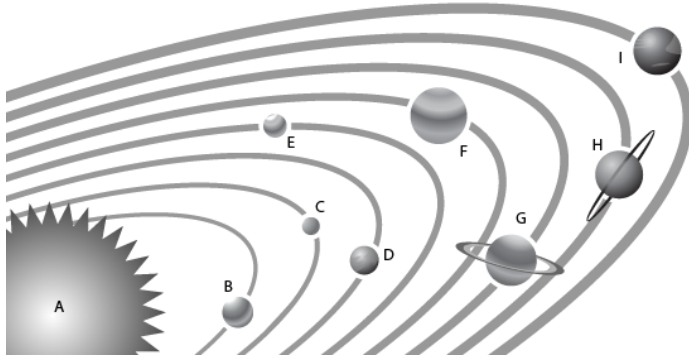
(1 mark)

c) Sarah is in a very dark room during the day.

Mention **one** thing she can do to see the objects around her.

(1 mark)

9. The diagram below shows the solar system.



a) Match the correct **letter** from the diagram above to the **word** in the table below.

Earth

Sun

Jupiter

Mercury

(4 marks)

b) The table below gives information about three planets orbiting the Sun in our solar system.

| Planet | Estimated time taken in Earth years |
|--------|-------------------------------------|
| Earth | 1 year |
| Mars | 2 years |
| Uranus | 84 years |

i. Underline the correct answer to the following statement.

Neptune will take (more, less) years than Uranus to orbit the Sun. (1 mark)

ii. Give **one** reason why Uranus takes more time than Earth to orbit the Sun.

(2 marks)

END OF EXAM