

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

Annual Examinations for Primary Schools 2022

Year 4

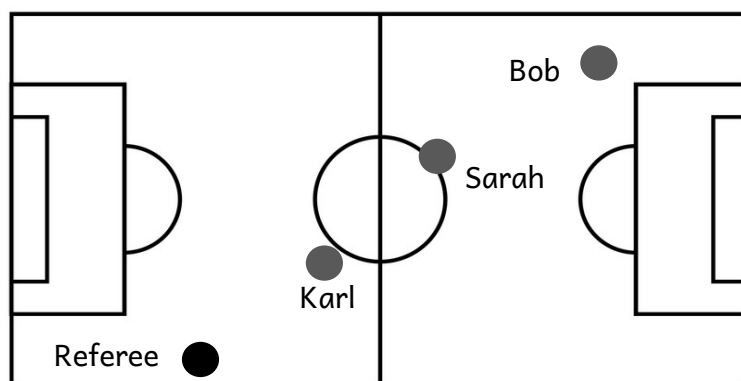
SCIENCE

Time: 60 minutes

Name: _____

Class: _____

1. Karl, Sarah and Bob are playing football as shown in the diagram below.



- a) The referee blows the whistle.

Put a tick (✓) next to the player who hears the whistle the **loudest**.

☐

Karl

☐

Sarah

☐

Bob

(1 mark)

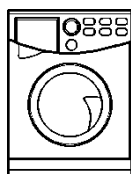
- b) Which of the five senses do Karl, Sarah and Bob use when the referee blows the whistle?

_____ (1 mark)

- c) Which other sense is important while playing football?

_____ (1 mark)

- d) Pictures A to D show different sounds.



A. washing machine



B. children



C. vacuum cleaner



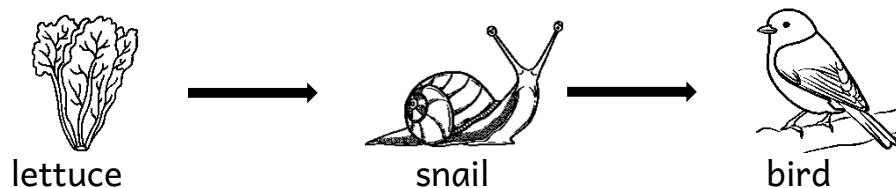
D. bell

Circle **two** pictures that show sounds heard at school.

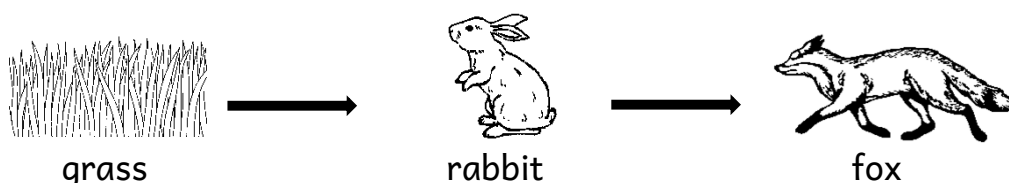
(2 marks)

2. Look at food chains A and B below.

Food Chain A



Food Chain B



a) From **food chain A** above, tick (✓) the animal that is a **herbivore**.

☐ snail ☐ bird ☐ rabbit ☐ fox (1 mark)

b) From **food chain B** above, tick (✓) the animal that is a **carnivore**.

☐ snail ☐ bird ☐ rabbit ☐ fox (1 mark)

c) From **food chain A** above, tick (✓) the animal that is a **prey**.

☐ snail ☐ bird ☐ rabbit ☐ fox (1 mark)

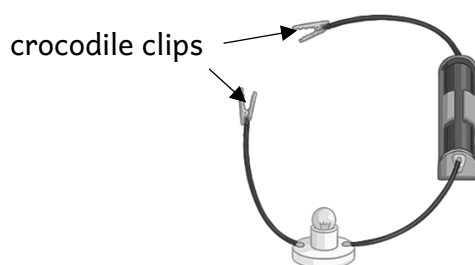
d) From **food chain B** above, tick (✓) the animal that is a **predator**.

☐ snail ☐ bird ☐ rabbit ☐ fox (1 mark)

e) The arrows in a food chain show the flow of energy from one organism to the next. Where do plants get their energy from?

_____ (1 mark)

3. Maria makes a simple circuit as shown in the diagram below.

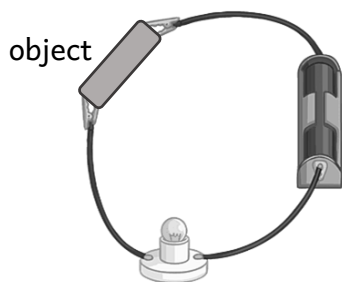


a) What happens when Maria connects the two crocodile clips together?

_____ (1 mark)

- b) Maria places each of the objects **A** to **D** outlined in the table below, between the crocodile clips as shown in the diagram below.

Put a tick (✓) next to the object in the table below to indicate that the bulb will **light up**. Put a cross (✗) next to the object in the table below to indicate that it will **not light up**.



Object	Bulb will light up
A. plastic ruler	
B. iron nail	
C. gold ring	
D. wooden toy	

(4 marks)

- c) Write the correct word in the space below to complete the following sentence.

Objects that allow electricity to flow through are called _____
and objects that do not allow electricity to flow through are called _____.

(2 marks)

- d) From the materials identified in the table in question '3b' above, list **one natural** and **one man-made** material.

Natural material: _____ (1 mark)

Man-made material: _____ (1 mark)

4. The table below shows the order of the planets in the solar system.

- a) Complete the table below to show the positions of **Earth**, **Jupiter** and **Neptune**.

1. Mercury	5. _____
2. Venus	6. Saturn
3. _____	7. Uranus
4. Mars	8. _____

(3 marks)

b) Which of the eight planets has the **shortest** orbit?

_____ (1 mark)

c) Choose the correct word from the word bank below, to complete the following sentence.

All the planets in our solar system orbit around the _____. (1 mark)

Earth

Moon

Sun

Jupiter

d) Galileo Galilei made great improvements to the equipment scientists use to see the Sun, Moon, stars and planets in more detail.

Name the equipment Galileo Galilei improved to look into space.

_____ (1 mark)

5. Friction is the force that causes moving objects to slow down.

a) Look at pictures E, F and G below.

Tick (✓) the correct box to indicate whether friction is **useful** or **not useful** in each situation.



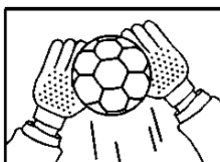
Picture E

☐

useful

☐

not useful



Picture F

☐

useful

☐

not useful



Picture G

☐

useful

☐

not useful

(3 marks)

b) Laura is testing friction.

She slides a block across two different surfaces, a tile floor and a carpet floor.

i. Tick (✓) the surface on which the block will travel **faster** and **further**.

☐

tile floor

☐

carpet floor

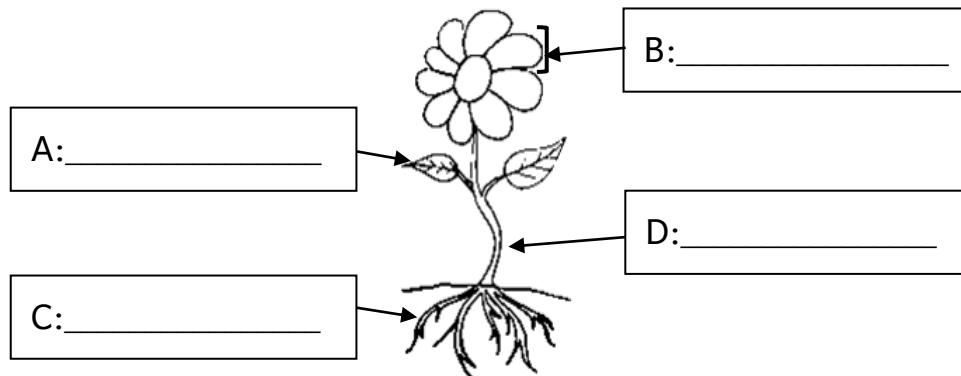
(1 mark)

ii. Give a reason to support your choice.

_____ (1 mark)

6. Look at the diagram below.

a) Name parts **A** to **D** of a flowering plant to complete the diagram.



(4 marks)

b) What is the function of the **part labelled C** in the flowering plant?

_____ (1 mark)

c) List **two** basic needs of a plant.

Need 1: _____ Need 2: _____ (2 marks)

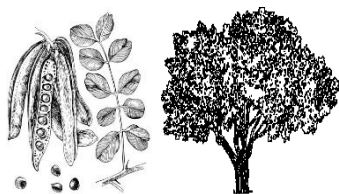
d) John put a plant in a closed cupboard. He watered it regularly. A few weeks later he observed the leaves turning yellow and some leaves falling off.

Give a reason to explain John's observation.

_____ (1 mark)

e) John went for a walk in the countryside. He saw different types of trees.

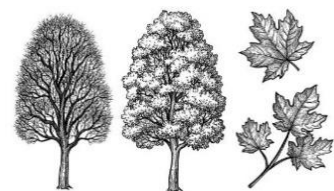
Circle **one** type of tree commonly found in the **Maltese countryside**.



Carob tree
Harruba



Holly tree
Sigra tal-Ileks



Maple tree
Sigra tal-Aggru

(1 mark)

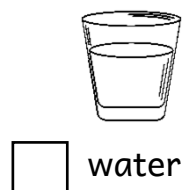
7. The pictures below show two drink and two food choices.

a) Tick (✓) the **healthier** choice for each.

i.



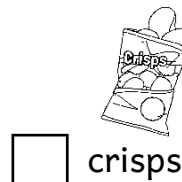
OR



ii.

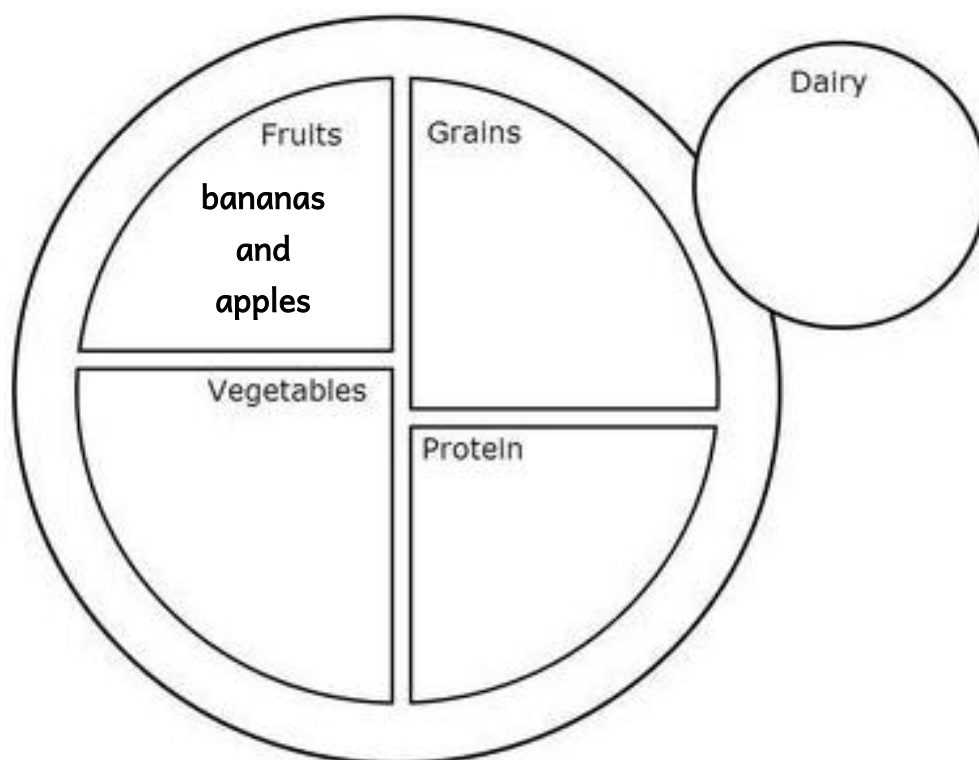


OR



(2 marks)

b) The diagram below shows a food plate.



i. Complete the food plate above. Choose a group of **two** words from the word bank below and write it in the correct space in the food plate, to complete a well-balanced food plate. The first one is done as an example.

bananas and apples	meat and nuts	cheese and yoghurt	broccoli and carrots	bread and rice
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(4 marks)

- ii. List **two** important actions to handle food safely and show good hygiene practices while cooking.

Action 1: _____

Action 2: _____

(2 marks)

8. Nina observed that the shadow around a tree changes its position during the day, as outlined in pictures H, I and J below.

- a) Tick (✓) the picture that shows the shadow at **noon**.



☐ Picture H



☐ Picture I



☐ Picture J (1 mark)

- b) On the picture chosen, mark with an X to show the position of the **sun** at **noon**.
(1 mark)

9. The table below shows the weather forecast for five days.

Monday	Tuesday	Wednesday	Thursday	Friday
				
Sunny	Cloudy	Rainy	Sunny	Windy
20°C	21°C	16°C	23°C	19°C

Look at the table and answer the questions that follow.

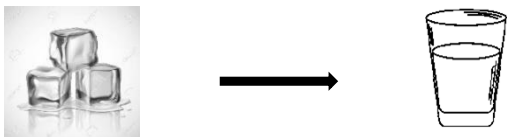
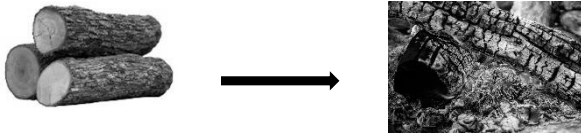
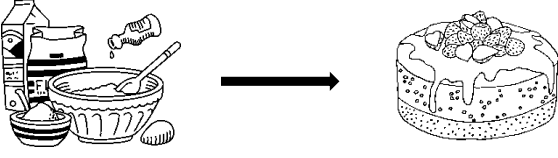
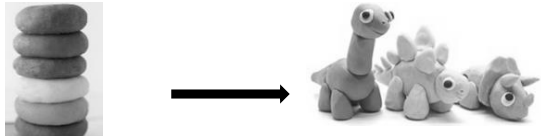
- a) Complete the table above by drawing the weather symbol for **Wednesday**.
(1 mark)
- b) Which day of the week is the coldest? _____ (1 mark)

- c) i. Which day would be best to fly a kite? _____ (1 mark)
- ii. Give a reason for your answer. _____ (1 mark)
- d) i. Name the weather instrument used to measure **rainfall**.
 _____ (1 mark)
- ii. Name the weather instrument used to measure the **air temperature**.
 _____ (1 mark)
- iii. Name the weather instrument used to measure **wind speed**.
 _____ (1 mark)

10. Sam and Martina are investigating how things change.

The pictures in the table below show these changes.

Complete the table below. Tick (✓) the correct column to indicate whether each change is a **reversible change** or an **irreversible change**.

Change	Reversible Change	Irreversible Change
 ice cubes → water		
 wood → ash		
 cake mix → cake		
 playdough → playdough dinosaurs		

(4 marks)

END OF EXAM