

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

Annual Examinations for Primary Schools 2020

Year 5

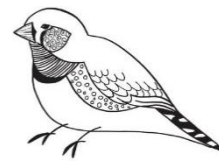
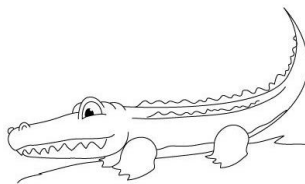
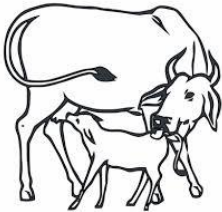
SCIENCE

Time: 60 minutes

Name: _____

Class: _____

1. The pictures below show three different animals.



a) Write the correct word under each picture. Choose from the word bank below.

fish	bird	amphibian	reptile	mammal
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(3 marks)

b) What do the cow, crocodile and bird have in common?

Tick (✓) the correct answer.

All have feathers.

All have a backbone.

All produce milk for their young.

(1 mark)

c) Sam observed a caterpillar on some cabbage leaves.

i. Is the caterpillar a vertebrate or an invertebrate?

Tick (✓) the correct choice.

vertebrate

invertebrate

(2 marks)

ii. How did the caterpillar get on the cabbage leaves?

Tick (✓) the correct statement.

- The cabbage leaves produced a caterpillar.
- A butterfly laid eggs on the cabbage leaves and the eggs turned into a caterpillar.
- A butterfly laid the caterpillar on the cabbage leaves. (2 marks)

2. Maria has two **identical** plants, A and B, as shown in the pictures below.

Plant A is living and plant B is made of plastic.



Plant A – living plant



Plant B – plastic plant

a) Tick (✓) the **two correct** statements about Plant A and Plant B.

- The living plant changes and grows. The plastic plant does not grow.
- The living plant absorbs water from the roots. The plastic plant does not absorb water from the roots.
- Both the living plant and the plastic plant need air to live. (2 marks)

b) The two pictures below show leaves from two **different** local plants, X and Y.

i. List **one** observable difference in the **shape** of the **leaves** of the pictures below.



Plant X



Plant Y

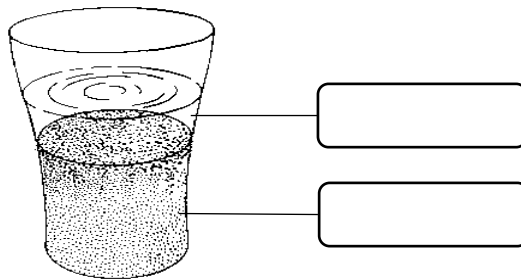
Difference: _____ (1 mark)

ii. What is the function of the leaves in a plant?

_____ (1 mark)

3. David and Sarah are at the beach. They collect a mixture of **seawater** and **sand** in a cup. After a few minutes they observe two layers in the cup, as shown in the diagram below.

a) Label the diagram below to show the substances in the mixture.



(2 marks)

b) Sarah investigates what happens when four different substances namely, **marbles**, **vitamin C tablet**, **sugar** and **soil** are mixed with water in four separate containers.

She prepares four mixtures in different containers, A to D.

After 15 minutes, Sarah notes down her observations as shown below.

Container A	Container B	Container C	Container D
A cloudy liquid with brown solid pieces at the bottom.	A coloured liquid with bubbles.	A colourless liquid with solid pieces at the bottom.	A colourless liquid.

i. Match container A to D, to the substance tested.

Write the **letter** of the container under each substance below.

marbles

vitamin C tablet

sugar

soil

(4 marks)

ii. Tick (✓) **two** statements that indicate that Sarah carried out a fair test.

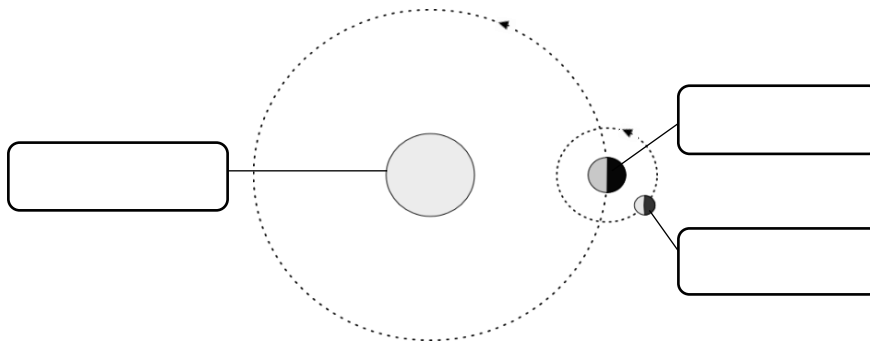
Poured the same amount of water in each container.

The temperature of the water in each container is the same.

Mixed the same substance with water.

(2 marks)

4. The diagram below shows the **Moon**, the **Earth** and the **Sun**.



a) Label the diagram.

Write the correct word in the blank boxes.

(3 marks)

b) Earth is one of the planets in the Solar System.

List **three other** planets in the Solar System.

1. _____ 2. _____ 3. _____

(3 marks)

c) Tick (✓) the correct statement below to explain why we have day and night on Earth.

- The Moon orbits the Earth.
- Earth turns on its axis.
- The Moon and the Earth orbit the Sun.

(2 marks)

5. Lara observes puddles of rain water on the road.

She notices *aqueducts* on the road side and in the water puddle as in the picture below.



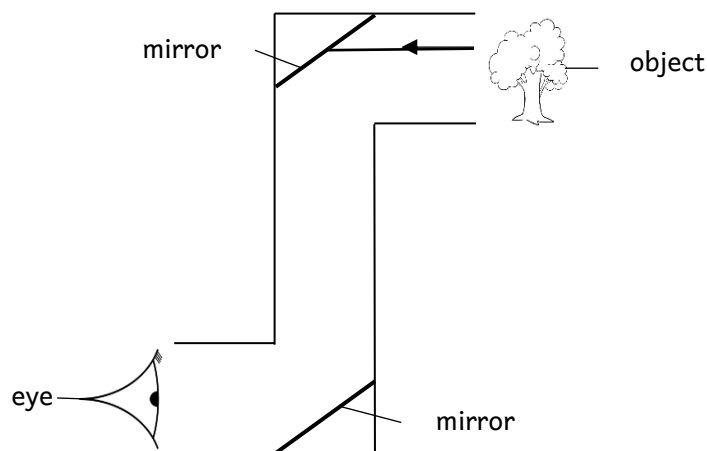
a) Why does Lara see the aqueducts in the water puddles?

Tick (✓) the correct choice.

- The aqueducts are in the water puddles.
- The aqueducts are reflected in the water puddles.
- The aqueducts reflect the clouds in the water puddles. (2 marks)

b) Mirrors, present in periscopes, can help us see things which cannot be seen directly.

On the diagram below, continue the path of light to show how light travels in a periscope.

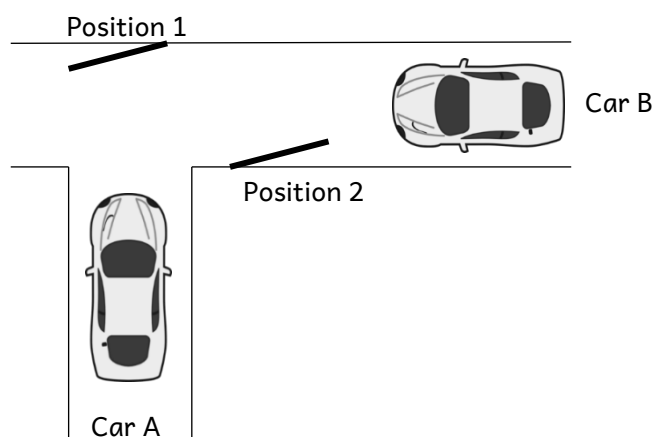


(2 marks)

c) Mirrors are also used at crossroads.

The diagram below shows two cars (A and B).

Car A is coming out of a street and car B is approaching.



Tick (✓) the correct position of the mirror that allows the driver of car A to see car B approaching.

- Position 1 Position 2 (2 marks)

6. Changes in the environment have an effect on living things.

a) The pictures below show different changes.

Choose the correct word from the word bank below, to describe each change.

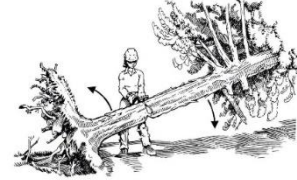
man-made change	seasonal change	natural change
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birds migrate



an erupting volcano



cutting down trees

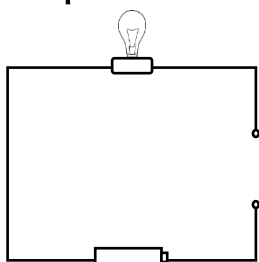
(3 marks)

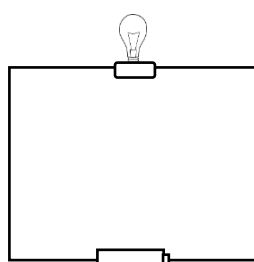
b) Tick (✓) **three** statements that show how changes by humans can lead to extinction of species.

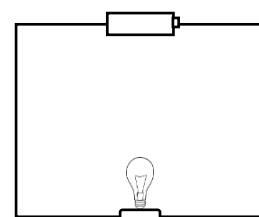
- Using plastic.
- Catching more fish than is needed.
- Harming pets.
- Burning oil, coal and gas that lead to climate change. (3 marks)

7. Martha set up three circuits as in the diagram below.

a) Tick (✓) **two** correct boxes under the circuits to show that the bulb will light up.







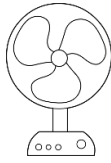
(2 marks)

b) The electrical energy in the previous circuits is changed into light energy.

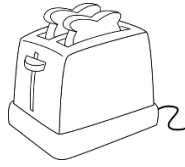
Write the correct word to show what electrical energy is changed to.

Choose **one** word from the word bank below and write it in the space under each picture.

sound	movement	heat
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fan



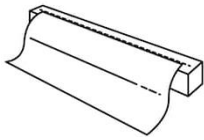
toaster



alarm bell

(3 marks)

8. Jack collects different objects which can be found in the kitchen, as in the pictures below.



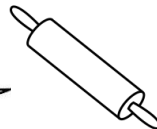
aluminium foil



measuring jug



plastic cling film



wooden rolling pin



metal pan



tea towel

a) Complete the table below to show the properties of the objects above. Use a tick (✓) to show the property of the object. Some examples have been given.

Object and material	Flexible	Hard	Transparent
aluminium foil	✓		
measuring jug			✓
plastic cling film			
wooden rolling pin			
metal pan			
tea towel			

(6 marks)

b) Objects are made for their specific purpose.

i. Give **one** reason to explain why a knife should be **hard**.

(1 mark)

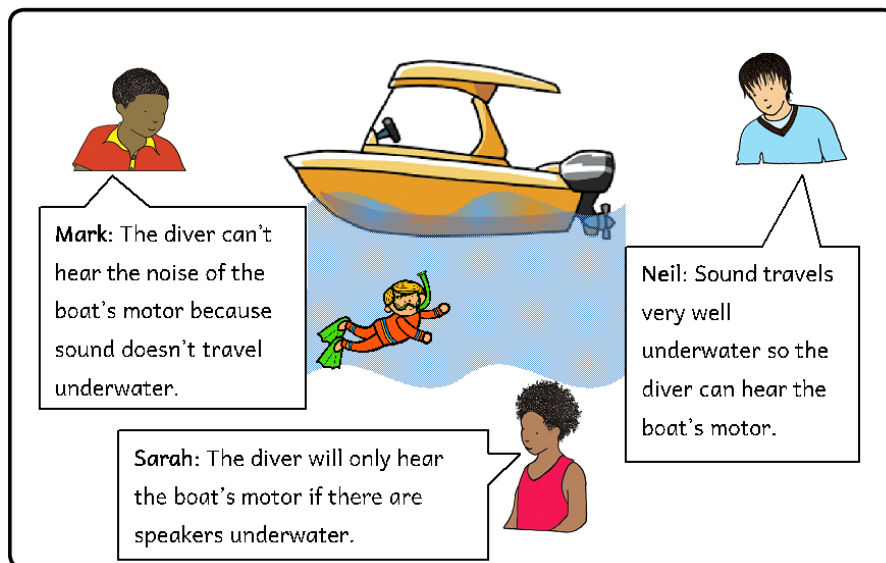
9. Tick (✓) the correct column to show whether each statement in the table below is True or False.

		True	False
a)	When an object vibrates, it makes a sound.		
b)	Sound waves can be seen.		
c)	Sound can travel through walls and the air.		
d)	Sound can only be heard if the object making the sound is near.		
e)	Sound travels in all directions.		

(5 marks)

f) Neil, Sarah and Mark are discussing whether a diver can hear the boat's motor underwater.

Look at the cartoon below to answer the questions that follow.



i. Who is right? Tick (✓) your choice

Neil

Sarah

Mark

(1 mark)

ii. Explain your choice.

(2 marks)

END OF EXAM