



# Noah's Ark Independent Primary School

Subject: NS&T	Examiner: Moyo, S.
Type: End of Year Exam	Moderator: Rwizi, A.
Date: 27 November 2019	Grade: 4- ____
Marks: 60 Marks	Time: 1 hr 30 minutes

Name: \_\_\_\_\_

## Instructions:

Answer ALL the questions in the spaces provided.

Write neatly and legibly

Carefully read all questions before answering

## Section A: Life, living and structures

1. Identify which of the things in the box below are non-living. (3x1)

sun	bean seed	stone
mushroom	ant	water

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2. Complete the table below that lists two things that a plant needs to grow. (3x1)

What plants need to grow	Where it comes from	The part of plant that gets it
2.1 _____	soil	2.3 _____
2.2 _____	sun	leaves

3. Name one method of growing plants. (1x1)

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4. Give one example of a natural shell structure and a human-made structure. (2x $\frac{1}{2}$ )

Natural shell structure: \_\_\_\_\_

Human-made structure: \_\_\_\_\_

5. Compare the fish and the bird on the table below. Answer in the space provided. (4x1)

Parts of the body	Fish	Bird
Limb	5.1 _____	5.2 _____
Body covering	5.3 _____	5.4 _____

6. Name the life process of plants and animals that gets rid of waste from their bodies. (1x1)

\_\_\_\_\_

7. Peter argues that animals do not need shelters but you disagree. Motivate why you think they need shelters. (2x1)

\_\_\_\_\_

\_\_\_\_\_

### Section B: Matter, materials and processing

1. The following sentences refer to the 3 states of matter. Name the state referred to by each sentence. (3x1)

1.1 The material expand to put the available space.

\_\_\_\_\_

1.2 The material flows into a container.

\_\_\_\_\_

1.3 The material takes up a certain space.

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2. Name each of the following processes. (2x1)

2.1 When water changes from gas to a liquid.

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2.2 When ice changes to a liquid state.

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3. Use the word bank below to classify the following raw and manufactured materials into raw materials and manufactured materials. Answer in the space provided. (6x $\frac{1}{2}$ )

Word bank		
wood	clay	plastic
ceramic	oil	paper

Raw material	Manufactured material

4. Describe how you would strengthen a sheet of newspaper. (1x2)

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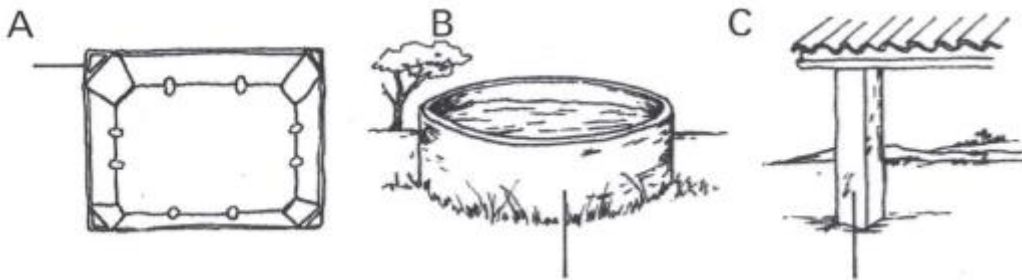
5. What properties make glass useful for producing windows? (3x1)

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6. Use the image below to answer the following question.



On the pictures above different shapes have been used. Suggest why these shapes are used. (1x2)

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### Section C: Energy, change, systems and control

1. Read the case study below then answer the questions that follow.

#### Deafening sounds affect musician's hearing

Pete Townsend, a famous band player, is deaf in one ear, but can still hear sounds in his other ear. The deafness was caused by a set of drums exploding on stage and by listening to loud music in the studio during recordings. His ears were also affected by playing his electric guitar very loudly. He also said that wearing earphones all the time affected his ears.

1.1 What kind of pollution is happening in the above story? (1x1)

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1.2 Explain the causes of Pete Townsend's partial deafness. ( $4 \times \frac{1}{2}$ )

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1.3 Choose one of the causes above and suggest what Pete could have done to ensure he was safe from their negative effects. (1x2)

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2.

2.1 Write a simple food chain using the examples in the box below. Use arrows to show the direction in which the energy is transferred. (1x3)

Word box			
Person	Sun	Maize	Chicken

2.2 Identify two things a person could do that would require some of the energy, which they have gained at the top of the food chain. (2x1)

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c. Briefly explain what would happen to the maize if the chicken was dead. (1x1)

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3. Name the source of energy in each of the pictures below. (4x $\frac{1}{2}$ )



Picture A: -----

Picture B: -----

Picture C: -----

Picture D: -----

4. Identify the missing words in the sentences below this picture.



4.1 A bicycle needs an input of \_\_\_\_\_  $\left(\frac{1}{2}\right)$   
to work. The energy for a bicycle comes from a person's  
\_\_\_\_\_. (1) The output of energy is  
\_\_\_\_\_  $\left(\frac{1}{2}\right)$  energy.

Section D: Earth, beyond and system control

1. Study the globe below then answer the questions which follow.



1.1 Name the three main features of the Earth. (3x1)

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1.2 Explain the similarity between a sea and ocean. (1x2)

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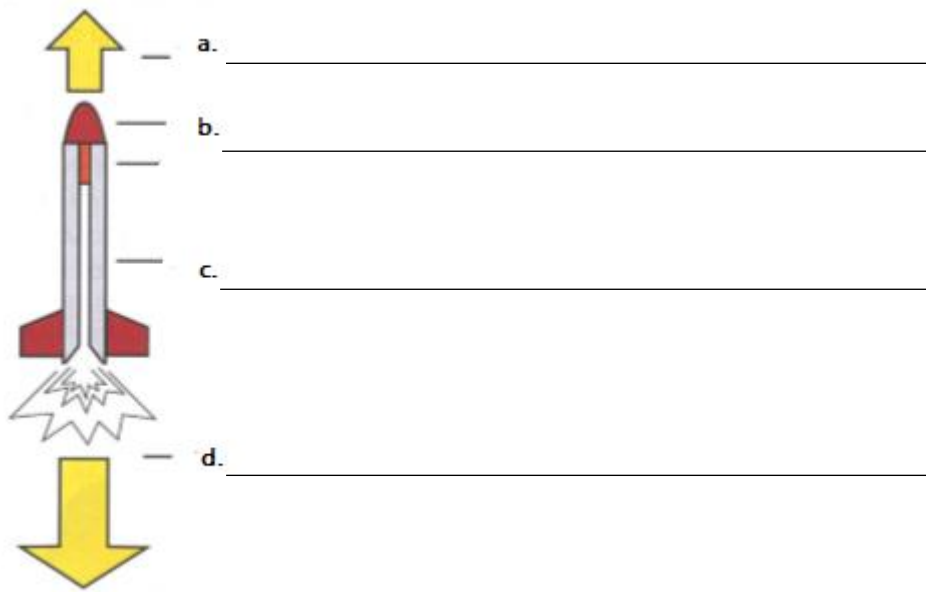
1.3 The atmosphere is a thin layer of air that surrounds the earth and it supports life. Discuss how it supports life. (3x1)

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2. Label the diagram below. (4x1)



3. Differentiate between the sun and the moon. (6x $\frac{1}{2}$ )

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\_\_\_\_\_ / 60 Marks