



STRUBENVALE PRIMARY SCHOOL

LOCKDOWN WORK

GRADE 4: NATURAL SCIENCES AND TECHNOLOGY – 17<sup>th</sup> to 21<sup>st</sup> of August 2020

Hi Strubies learners!

I hope that you are keeping safe and warm during this time. Below is revision work for you to complete. Please note the online work will stop when learners come back to school.

- Complete the work in the back of your Natural Sciences and Technology book.
- Each day's activity should have the date, heading and sub-heading.
- Remember Question, underline, answer, skip a line.
- Rule off after each activity.
- Work neatly in blue pen.
- Keep up with your work so that you don't fall behind.

*Revision*

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CASE STUDY:

HOOT AND TOOT NEED A NEW HOME

Hoot and Toot are two Spotted Eagle Owls that live at the National Zoological Gardens of South Africa in Pretoria. They go out into the zoo every day with their handlers so that visitors can see them up close. Their **enclosure** is in a quiet part of the zoo where visitors aren't allowed.

Robynn Ingle trains Hoot and Toot. She knows a lot about owls' habits and how they live in the wild. She knew that the owls needed a bigger enclosure with some space to fly. They live in the wild. She knew that the owls needed a bigger enclosure with some space to fly. They needed choices about where to sit. The enclosure needed to protect them and give them privacy, as well as allowing them to look out. They needed a place to hide away and rest.

Robynn knows that all animals kept by humans need:

1. Fresh, clean water and proper food
2. A comfortable place to live
3. To be safe and healthy
4. To feel safe and happy
5. To be able to do the kinds of things they would do in the wild

Robynn helped the "Friends of the Zoo" to design and build a new enclosure for Hoot and Toot to meet all their needs.

Hoot and Toot also needed new nesting boxes to hide in and to rest. Some students from the University of Pretoria designed and made the nesting boxes. First they did research on owls' habits.

They discovered that Spotted Eagle Owls like to roost on the ground. The students thought about the size and shape of the boxes and what materials they could use. They learnt that owls must be able to turn around in their nesting boxes and their heads must not touch the top. The nests needed to protect the birds from sun, wind and cold. The nests could not cost too much to make but they needed to be safe, comfortable and easy to clean.

Question 1

Answer the questions about animals' shelters.

1. Why do animals need shelters? Write three reasons.

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2. What are the five things which all animals that are kept by humans need?

\_\_\_\_\_

\_\_\_\_\_

3. What materials did they use to make the box?

\_\_\_\_\_

\_\_\_\_\_

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**Question 2**

Complete the table. Use the list of animal shelters to complete the table. Write each type of shelter in the correct column.

Spiders web, Stable for horses, Hamster cage, Chicken coop, Bee hive, Cattle kraal, Sheep pen, Meerkat burrow, Weaver bird's nest, Tortoise shell

Natural animal shelter	Human made animal shelter

**Question 3**

Complete and tick the boxes that describe each shelter correctly.

Structure	Natural	Human made	Frame structure	Shell structure
Bird cage				
Nest				
Rabbit hutch				
Termite mound				

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1. Use the words below to complete the sentences.

river | shelter | escape | food | grassland | water

- 1.1 Lions and zebras live in \_\_\_\_\_ habitats.
- 1.2 Crocodiles and fish live in \_\_\_\_\_ habitats.
- 1.3 Animals get \_\_\_\_\_ and \_\_\_\_\_ from their habitats.
- 1.4 Habitats help animals to \_\_\_\_\_ from danger.

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1. Match each word in column A with the correct description in column B.

A	B	Answer
1. Plastics	a. Threads in plant and animal materials	1.
2. Absorbent	b. Made of clay and sand	2.

A  
Y

3. Brittle	c. Made from oil and coal	3.
4. Fibers	d. Breaks easily	4.
5. Ceramics	e. Soak up a liquid easily	5.

2. Describe the raw material of each of the following:

Leather \_\_\_\_\_  
\_\_\_\_\_

3. Write a sentence and explain what glass is.

\_\_\_\_\_  
\_\_\_\_\_

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4. Complete the table by ticking the properties of glass, clay and plastics.

Properties	Glass	Clay	Plastics
a. Flexible			
b. Brittle			
c. Becomes hard when baked			
d. Waterproof			
e. Soft			

5. Look at the words in the word box and answer the questions below.

Wool slippers | Wooden walking stick | Polyester pillow | glass jug | floor tile | knitting wool | plastic shopping bag | plastic knitting needles

a) Name one object that is made of a hard material

\_\_\_\_\_

b) Give two examples of objects that are made of soft materials

\_\_\_\_\_

c) List two objects that are made of stiff materials

\_\_\_\_\_

d) List two objects that are made of flexible materials

\_\_\_\_\_

Well done for completing week 18. Have a good weekend and I will see you back in your home class on Monday!! 😊