

When you are taking this exam, remember these important things:

- Read each question carefully and think about the answer before you write.
- Number your answers correctly.
- Rule off between each section.
- If you finish early, you must check your work.

QUESTION 1: Multiple Choice

Answer the following questions by writing down the correct LETTER only.

- 1.1 When plants are growing, they use light energy from the ____ as well as carbon dioxide and water to grow.

A) sun
 B) moon
 C) earth
 D) plants

- 1.2 During this process, water circulates from oceans to clouds, lands and rivers and finally goes back into oceans.

A) Evaporation
 B) Water cycle
 C) Precipitation
 D) Condensation

- 1.3 Liam wants to build a bookshelf. It is most important that the material he chooses to build it is?

A) soft
 B) strong
 C) flexible
 D) waterproof

- 1.4 Which of the following would most probably happen if plants and animals stopped reproducing?

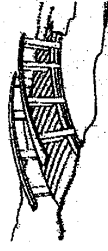
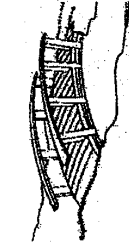
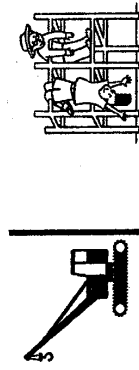
A) Living things would just live longer and longer.
 B) There would be more plants on Earth.
 C) All life on Earth would eventually die out.

TOTAL 4

QUESTION 2 – SKELETONS AND STRUCTURES

- 2.1 Given below are the pictures of a crane, jungle gym and a bridge.

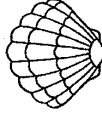
(1)



State what type of structures these are.

- 2.2 Given below are the pictures of a lobster, clam and snail.

(1)



State what type of structures these are.

(1)

- 2.3 Which of the TWO is more rigid and strong? A shell or frame structure?

- 2.4 What are the advantages to humans for having a frame structure as a skeleton?

(2)

- 2.5 Complete the sentences below by filling in the missing words. Write the WORD only.

Vertebrate animals can move because of two really important things:

- 2.5.1 They have ____ between their bones that can let their bones move. (1)

(1)

- 2.5.2 Their ____ are attached to their skeletons.

- 2.6 List TWO places in your skeleton where you have a joint. (2)

- 2.7 What is the difference between the way a human moves, the way a dolphin moves and the way a dog moves? Describe the movement of each animal and the limbs that are used. (3)



TOTAL 12

SECTION 3 – FOOD CHAINS

Read the extract below from a poetic story:



Pond Circle
By Betsy Franco

This is the owl
the great horned owl
that dived for the skunk
that caught the snake
that gobbled the beetle
that ate the dragonfly that nibbled the algae
that grew in the water that filled the pond by Anna's home.

Write the food chain shown in the passage. DO NOT DRAW.

What do the arrows in a food chain represent?

Why do animals need the food that plants make?

TOTAL 5

SECTION 4 – LIFE CYCLES

4.1 Put these five stages of the life cycle of a plant in the correct number order. Begin with the seed. Write the letter and the correct NUMBER ONLY. You will use the numbers 2-5.

| STAGE | ORDER |
|-----------------|-------|
| a) Mature plant | |
| b) Fruit | |
| c) Seed | 1 |
| d) Flower | |
| e) Young plant | |

Name the process that takes the plant from seed to seedling.

TOTAL 3

QUESTION 5 – METALS AND NON-METALS

Each statement describes either a metal or non-metal. Write the words metal OR non-metal ONLY.

- 5.1 I shine when I am polished.
5.2 I am a bad conductor of electricity.
5.3 You will mostly find me in solid form at room temperature.

5.4 Give TWO examples of metal objects which you use regularly.

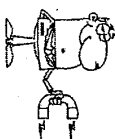
5.5 Give a reason as to why items such as wire fences and soccer posts are made from metal.

Sometimes, just using one property to classify an object or material as a metal might not be enough. For example, plastic is flexible but strong. So does this make it a non-metal? The answer is no. Another example is glass.

5.6 Glass is also hard but is it strong? What other properties does glass have which make it a non-metal and not metal? Name any TWO.

5.7 Read the sentences below and decide if they are TRUE or FALSE. Write the words TRUE or FALSE only.

- a) All metal objects are attracted to a magnet.
b) Some metal objects are attracted to a magnet.
c) Some non-metal objects are attracted to a magnet.
d) Iron is magnetic.



5.8 What is another word for rust? (1)

5.9 Name the only metal which rusts. (1)

Write the definitions for the words below:

5.10 Malleable

5.11 Ductile (2)

TOTAL 16

QUESTION 6 – COMBINING MATERIALS

6.1 What product will you get when mixing flour and water? (1)

6.2 Look at the process of combining materials below and answer the questions which follow.



6.2.1 Name the raw product which was used. (1)

6.2.2 What is the end product? (1)

6.2.3 What could this product be used for? (1)

6.2.4 Name **ONE** property which makes this product useful. (1)

TOTAL 5

TOTAL 45

