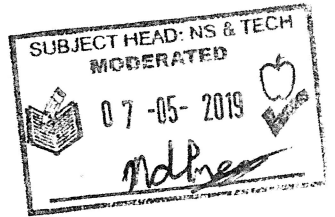


**Laerskool Van Dyk Primary – District D16**

**Natural Science and Technology**

**Grade 4 – Term 2 2019**

**Assessment Task 2 – Examination**



**Subject:** NS & Technology

**Specific Aims:** 1 & 2

**Examinator:** L. Opperman

**Moderator:** M. du Preez

**Duration:** 60 min

**Date:** 23 May 2019

**Name and Surname:** \_\_\_\_\_

**Grade:** 4. \_\_\_\_\_

**Date:** \_\_\_\_\_

**Total:** \_\_\_\_\_ /40 = \_\_\_\_\_ %

**Scale:** \_\_\_\_\_

**ASSESSMENT TOOL:**

| Rating code | %         | Description          |
|-------------|-----------|----------------------|
| 7           | 80 - 100% | Outstanding Achieved |
| 6           | 70 - 79%  | Meritorious Achieved |
| 5           | 60 - 69%  | Substantial Achieved |
| 4           | 50 - 59%  | Adequate Achieved    |
| 3           | 40 - 49%  | Moderate Achieved    |
| 2           | 30 - 39%  | Elementary Achieved  |
| 1           | 0 - 29%   | Not Achieved         |

**Instructions:**

- Answer ALL the questions.
- Write neatly and presentable.
- Use a blue or a black pen.

**QUESTION 1: Multiple choice**

**[10]**

Choose the correct word from those given and **circle your answer:**

1.1 Although living things look different, they all carry out seven similar life processes. One of the following is not part of the seven life process \_\_\_\_\_.

- A. Movement
- B. Sensing
- C. Shelter
- D. Feeding [1]

1.2 When growing yeast \_\_\_\_\_ water is used.

- A. Cold
- B. Boiling water
- C. Luke warm
- D. Frozen [1]

1.3 A \_\_\_\_\_ structure gives support:

- A. Shell
- B. Frame
- C. Wall
- D. Basket [1]

1.4 A \_\_\_\_\_ shape does not change easily.

- A. Liquids
- B. Solids
- C. Gas
- D. None of the above [1]

1.5 Which one of the following is not a property of glass?

- A. Waterproof
- B. Heat resistant
- C. Flexible
- D. Transparent [1]

1.6 Which of the following do not show a life process?

A. Cow

B. Dead branch

C. Egg

D. Dog

[1]

1.7 Seeds seem not living, but they became alive when the correct conditions are added to them.

A. Water (moisture)

B. Warmth

C. Air

D. All of the above

[1]

1.8 Roots of plants...

A. hold the plant in the soil, absorbs water, mineral and salts.

B. keeps the plant upright, hold the plant in soil.

C. uses sunlight to make food for the plant.

D. helps to keep the leaves green and healthy.

[1]

1.9 The scientific name where animals make their homes is called ...

A. Ecosystem

B. Habitat

C. Their homes

D. Palace

[1]

1.10 Predators are animals that ...

A. eat grass and meat

B. catches only fish and eats them

C. eat meat, seeds and plants

D. catches and eats other animals

[1]

**QUESTION 2: (True or False)**

**[7]**

State whether the following statements are true or false:

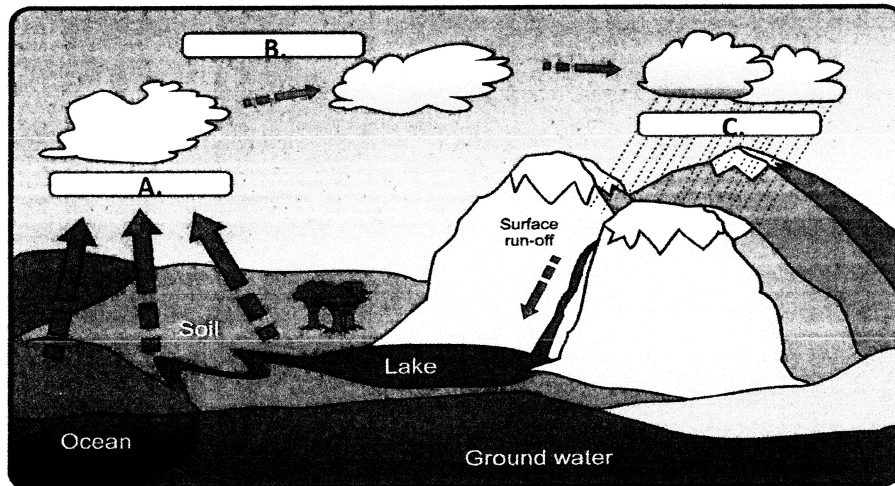
| Statements   | True / False |
|--|--------------|
| 2.1. Freezing is the process when a liquid changes to a solid through cooling. |              |
| 2.2. Plants need light, water, air and soil to grow.                           |              |
| 2.3. Gases have no definite shape and take up all space available.             |              |
| 2.4. When solid change to liquid the process is called condensing.             |              |
| 2.5. Materials can be in three (3) states: e.g. Solid, Liquid and Gas.         |              |
| 2.6. A glass jug is a material that is flexible.                               |              |
| 2.7. A newspaper is a material that is waterproof.                             |              |

**QUESTION 3**

**[7]**

3.1 Complete the water cycle by filling in the missing words.

**[3]**



A: \_\_\_\_\_

B: \_\_\_\_\_

C: \_\_\_\_\_

3.2 Use the water cycle to explain in your own words how rain is formed.

\*(Use the picture and words above to help you.)

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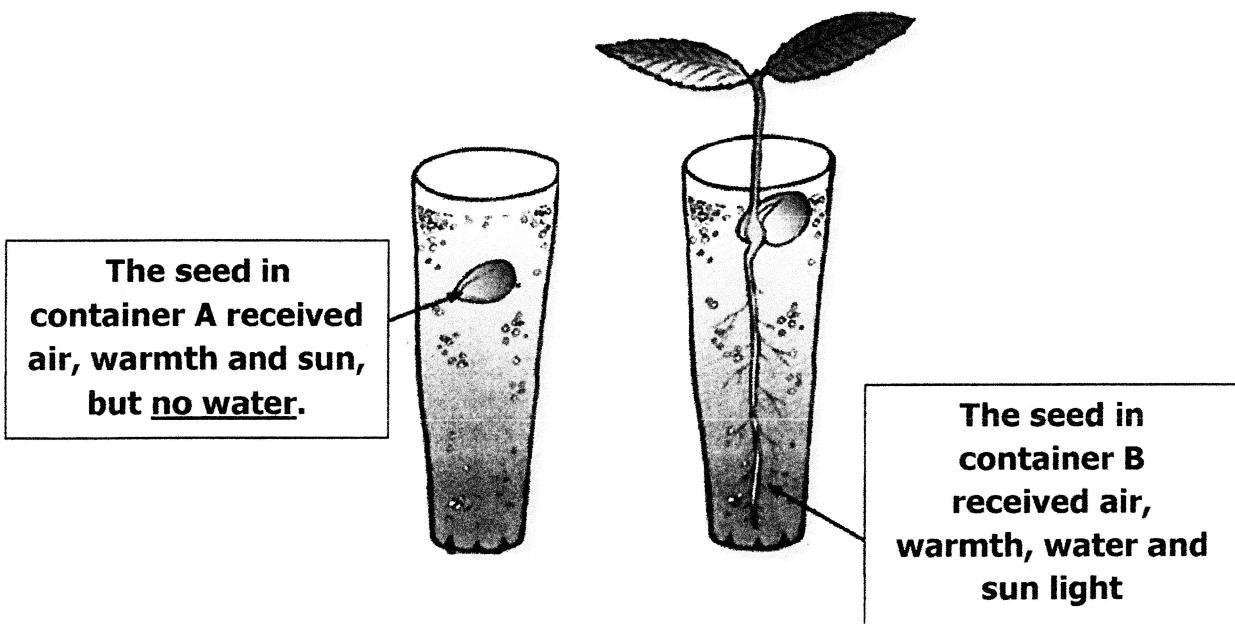
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[4]

**QUESTION 4**

**[4]**

Study the following pictures and answer the questions that follow:



4.1 Did the seed in container A grow? Explain why.

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[2]

4.2 Did the seed in container B grow? Explain why.

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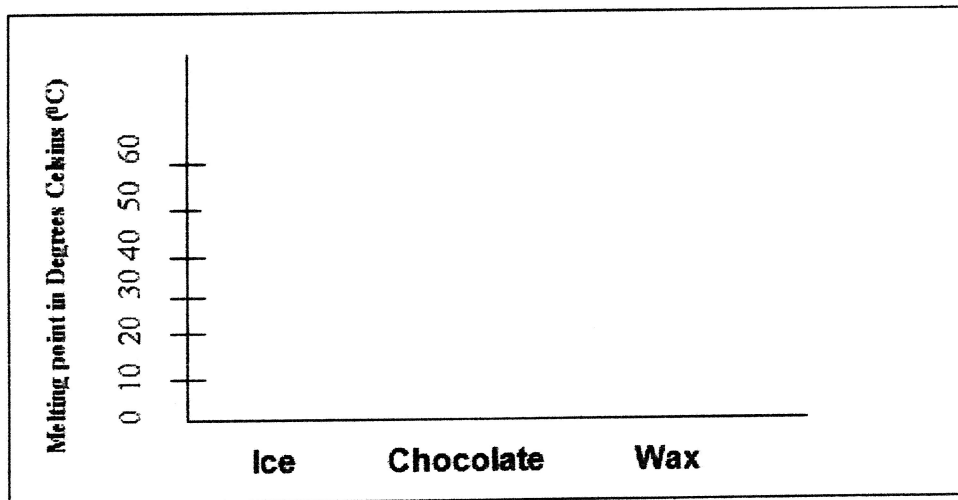
[2]

**QUESTION 5****[6]**

The table below shows the melting temperature of different substances.

| <b>Substance</b> | <b>Melting point in degrees Celsius (°C)</b> |
|------------------|--|
| Ice              | 10   |
| Chocolate        | 30   |
| Wax              | 60   |

5.1 Use the information listed in the table and draw a bar graph showing the different melting temperatures for these substances. [3]



5.2 Look at your graph and decide which substance melts at the lowest temperature.

\_\_\_\_\_ [1]

5.3 Look at your graph and decide which substance melts at the highest temperature.

\_\_\_\_\_ [1]

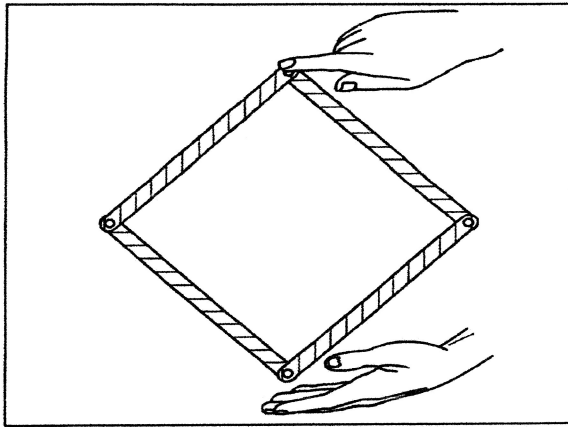
5.4 What is the name of the process when solid wax turns into a liquid?

\_\_\_\_\_ [1]

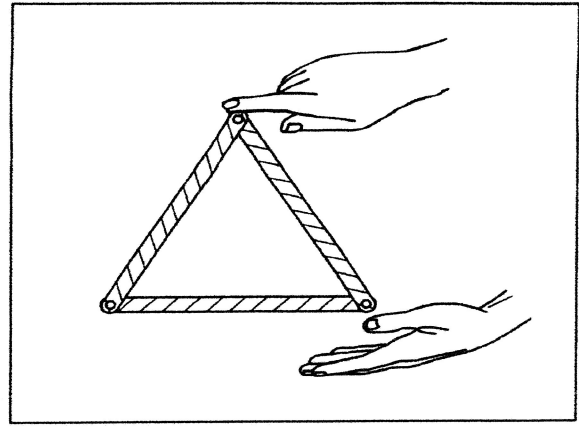
**QUESTION 7**

**[6]**

Study the following pictures and answer the questions that follow.



**Figure A: Square shape**



**Figure B: Triangle shape**

7.1 Which shape will lose its shape when you press on the corner?

\_\_\_\_\_ [1]

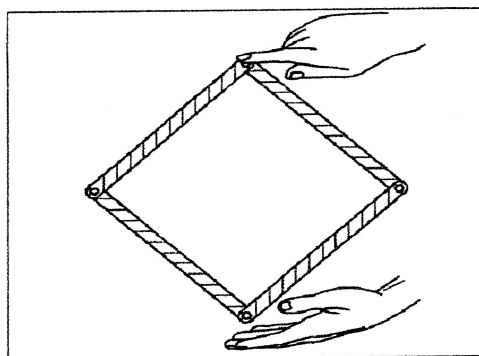
7.2 Suggest two ways how we can strengthen the shape?

\_\_\_\_\_  
\_\_\_\_\_ [2]

7.3 Which shape do you think is the strongest and why?

\_\_\_\_\_  
\_\_\_\_\_ [2]

7.4 Draw on Figure A below how you will reinforce the square. [1]



**Figure A: Square shape**

**TOTAL = 40**