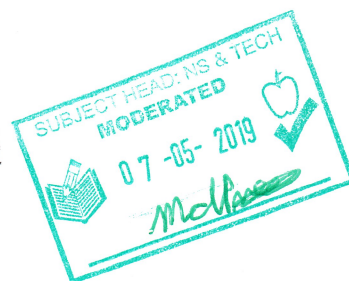


Laerskool Van Dyk Primary – District D16

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: _____

Memo

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:

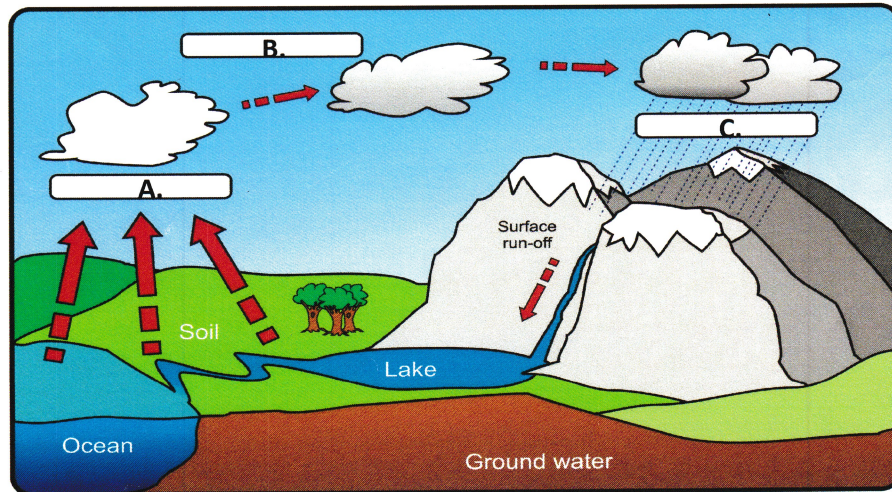
Statements	True / False
2.1. Freezing is the process when a liquid changes to a solid through cooling.	True ✓
2.2. Plants need light, water, air and soil to grow.	True ✓
2.3. Gases have no definite shape and take up all space available.	True ✓
2.4. When solid change to liquid the process is called condensing.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

QUESTION 3

[7]

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

[3]



- A: Evaporation ✓
- B: Condensation ✓
- C: Precipitation ✓

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

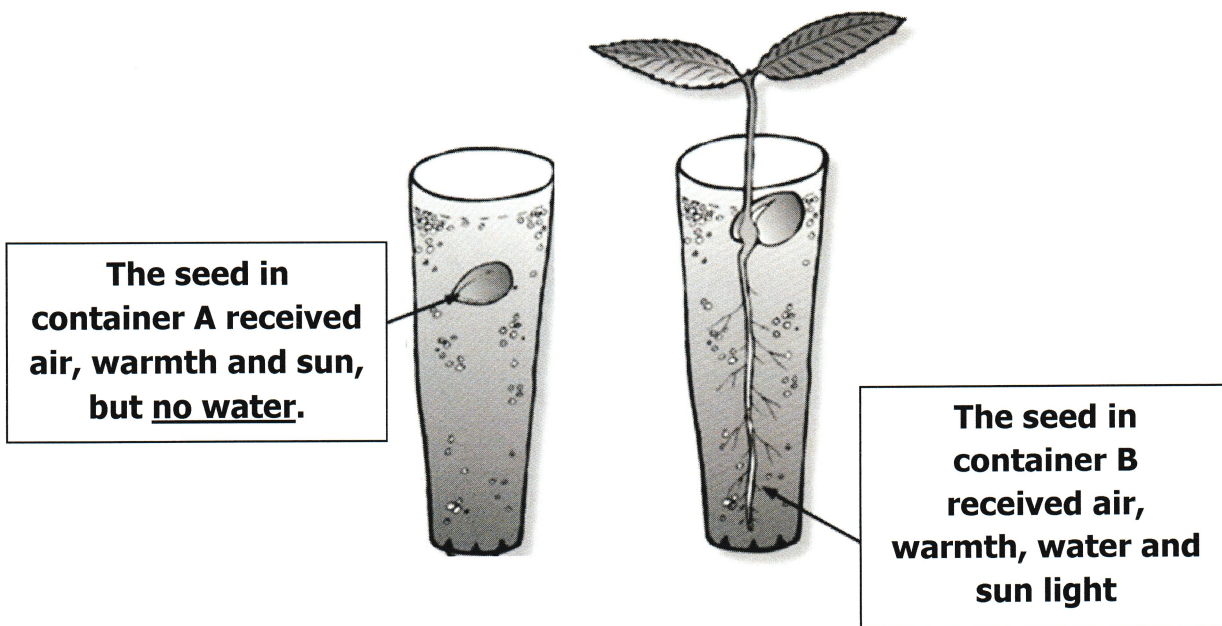
*(Use the picture and words above to help you.)

Water as a liquid heats up through the sun and evaporates. As the evaporated water rises, it cools down through condensation. The condensed water vapour collects and form clouds, through precipitation (rain, snow [4] or hail) then falls back to the earth. Starting all over again.

QUESTION 4

[4]

Study the following pictures and answer the questions that follow:



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

No ✓, because it did not get water ✓

[2]

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

Yes ✓, because it got warmth, water, air and sun light. ✓

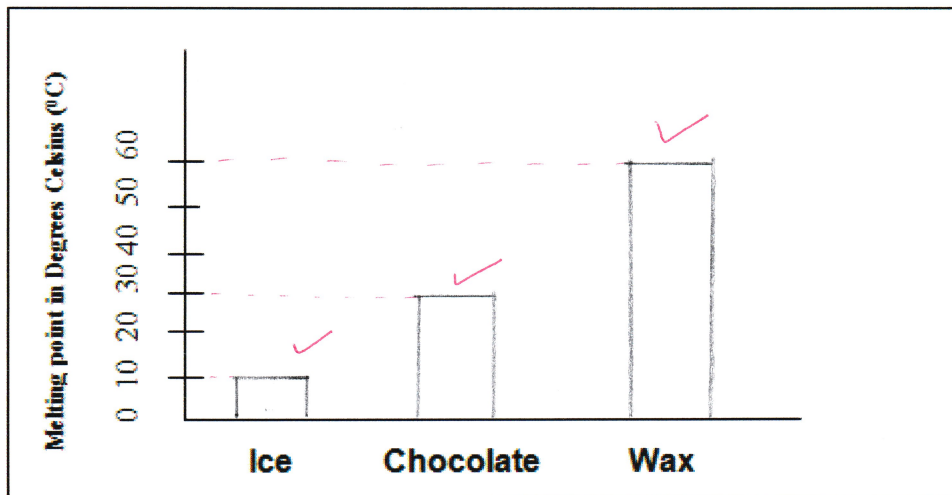
[2]

QUESTION 5**[6]**

The table below shows the melting temperature of different substances.

Substance	Melting point in degrees Celsius ($^{\circ}\text{C}$)
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.

Ice ✓

[1]

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

Wax ✓

[1]

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

Melting ✓

[1]

QUESTION 7

[6]

Study the following pictures and answer the questions that follow.

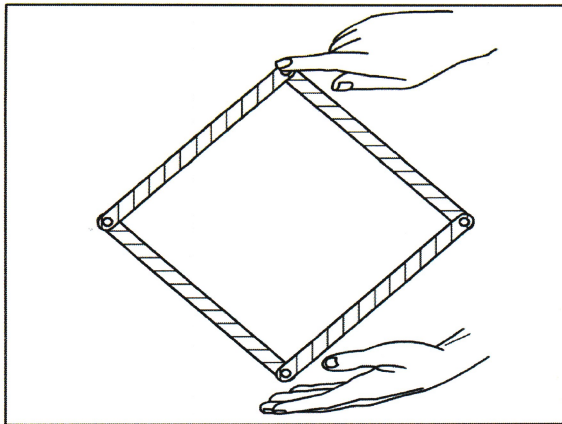


Figure A: Square shape

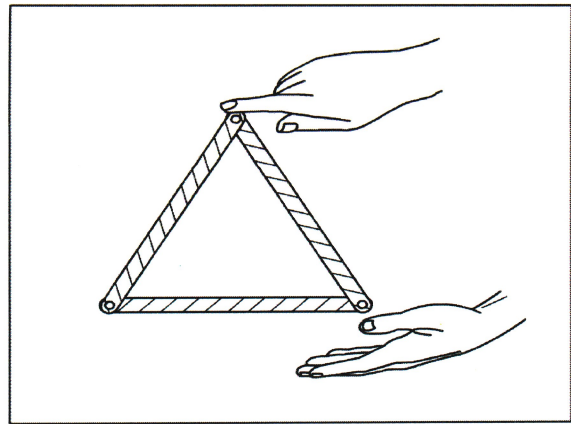


Figure B: Triangle shape

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

Figure A ✓ / Square [1]

7.2 Suggest two ways how we can strengthen the shape? (any two)

Reinforce Struts ✓✓
 Triangulation [2]

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

Figure B ✓ Strongest shape
 because it is in the shape of
 a triangle / triangulation ✓ Support [2]

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

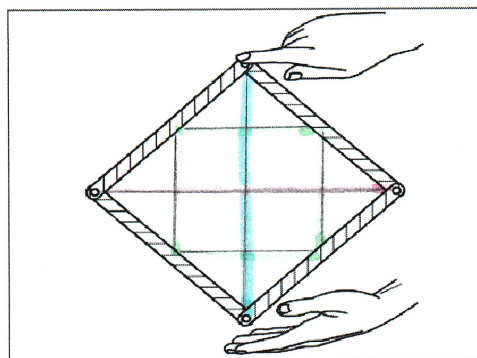


Figure A: Square shape

Stabilization [1]
 Stiffen.
 (any way, as long as
 a triangle is formed.)
 ✓

TOTAL = 40