

## Blouberg Ridge Primary School

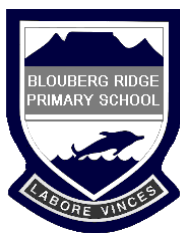
Natural Science

Name: .....

Date: 29 June 2021

Examiner: L. Lopes

Task 4: Test



Marker and date: .....

Grade 6 C / L / S / V / W

Time allocation: 1 hour

Moderator: .....

Total: ..... /45

### Instructions:

- This test paper consists of 5 pages.
- Read through all the questions before starting.
- Good luck! 😊

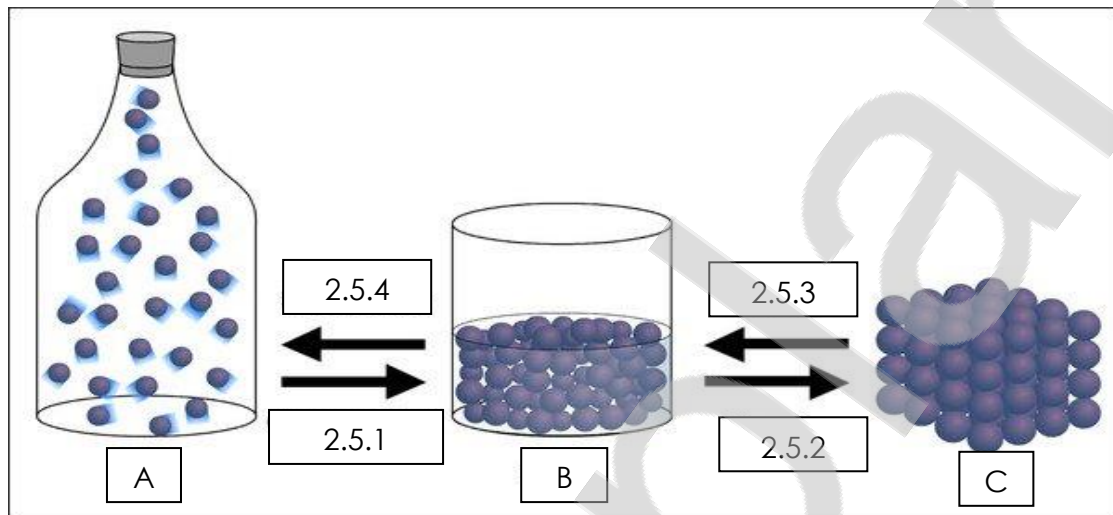
### **Question 1: Indicate the correct answer by marking a cross(x) over the appropriate letter.** [5]

- 1.1) Which of the following properties is TRUE for the arrangement of particles in a liquid?
- Particles are very far apart
  - Particles can move freely in all directions
  - Particles have a fixed pattern
  - Small spaces between particles
- 1.2) When dissolving sugar in water, the water component is called the.....
- Solute
  - Solvent
  - Solution
  - Soluble
- 1.3) Sieving refers to...
- Separating a liquid and a substance by pouring it through a material like a mesh or fabric.
  - Use a tool with holes that allows pieces of a certain size to pass through.
  - Allow a substance mixed with a liquid, to settle at the bottom.
  - Break up a mixture into the substances mixed.
- 1.4) Which of the following statements is FALSE
- You can separate a mixture of coins by hand sorting.
  - You can separate a mixture of salt and water by evaporating the water.
  - You can separate a mixture of oil and water by filtering it.
  - You can separate a mixture of sand and water by filtering it.

- 1.5) Which one of the following statements is TRUE
- Matter is made of tiny particles that can be seen with the eye.
  - Particles of matter have spaces between them.
  - Not all particles of matter vibrate or move.
  - All of the above.

**Question 2: MATTER.**

**[14]**



- What do we call the solid state of water? \_\_\_\_\_ (1)
- What do we call the liquid state of water? \_\_\_\_\_ (1)
- What do we call the gas state of water? \_\_\_\_\_ (1)
- Provide labels for the states of matter found at A, B and C. (3)

A: \_\_\_\_\_ B: \_\_\_\_\_ C: \_\_\_\_\_

- What processes take place at: (4)
  - \_\_\_\_\_
  - \_\_\_\_\_
  - \_\_\_\_\_
  - \_\_\_\_\_

2.6) Explain the difference between solids and gases by referring to the particles (and how they behave) (4)

<u>Solids</u>	<u>Gases</u>
<i>EG: Very small spaces between the particles</i>	<i>EG: Big spaces between the particles.</i>
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*	*

**Question 3: Mixtures and solutions.**

**[13]**

3.1) Explain the difference between a mixture and a solution?

(2)

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3.2) Give an example of a mixture of solids that can clearly be seen after mixing and that can be sorted by hand.

(1)

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3.3) Give an example of a mixture of solids where the substances cannot be seen easily after mixing, but they can be separated by sieving.

(1)

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3.4) In a mixture of oil and water, which substance do you think is lighter: oil or water? Give a reason for your answer.

(2)

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3.5) Draw and label a diagram of a mixture of oil and water.

(2)



3.6) When Michael had finished drinking his tea, he noticed that there was still some sugar left in the bottom of his cup. He had used boiling water and he had stirred his tea before drinking it.

3.6.1) Provide Michael with a possible explanation for this. (1)

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3.6.2) Michael stirred the hot solution to speed up the rate of dissolving. Mention another factor that would affect the rate at which the sugar would dissolve. (1)

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3.7) Complete the following sentences by filling in the missing words.

3.7.1) When the sugar dissolved in the water, it formed a \_\_\_\_\_ . (1)

3.7.2) The sugar is known as the \_\_\_\_\_ because it dissolved in the water. (1)

3.7.3) The water is known as the \_\_\_\_\_ because it is the liquid into which the sugar dissolved. (1)

**Question 4. WETLANDS** [6]

4.1) Explain why wetlands are so important? (3)

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4.2) *As the world's population increases, more and more wetlands are being drained. The world has lost half of its wetlands in the last hundred years.*

4.2.1) Why are wetlands being destroyed? (2)

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4.2.2) How is the biodiversity effected when wetlands are destroyed? (1)

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Study the picture below and answer the questions that follow.



5.1) Name 2 insoluble pollutants that could be found in this river. (2)

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5.2) Mention two reasons why you think it is important to keep our rivers clean. (2)

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5.3) The water from a tap does not start out clean and fresh. It may come from a river or dam, or it may even be waste water that was used by a community or in a factory.

5.3.1) Mention the five processes (in order) used by municipalities to treat water so that it can be safe for us to drink. (3)

- \_\_\_\_\_
- Settling
- \_\_\_\_\_
- \_\_\_\_\_
- Disinfection