



Subject: Grade 8 Natural Sciences
Topic: Natural Sciences: Exam Term 2
Total: 112 Marks

Name: _____

Date: _____

Question 1: True/False

2 marks

Oxygen gas is used during the process of respiration.

TRUE

FALSE

Question 2: Text Input

3 marks

Any material that is less dense than a liquid material will ... in the liquid.

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Question 3: Multiple Choice

4 marks

A block of iron weighs 5 kg and has a volume of 1 000 cm³.

What is the density of this block of iron.

- | | |
|----------|--------------------------|
| A | 0. 005 g/cm ³ |
| B | 5 g/cm ³ |
| C | 50 g/cm ³ |
| D | 0. 05 g/cm ³ |

Question 4: Please Fill In The Blanks

4 marks

A (1) is a good example of a grazer, since it feeds mainly on (2) .

Possible Answers: giraffe | the leaves of shrubs | grass | buffalo

1	
----------	--

2	
----------	--

Question 5: Text Input

3 marks

The forces of attraction are weaker for a substance in its liquid phase than when the substance is in the ... phase.

Question 6: Please Fill In The Blanks

4 marks

The (1) in a block of iron are packed much (2) than the particles in a block of plastic.

Possible Answers: looser | particles | volume | mass | closer

1	<input type="text"/>
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2	<input type="text"/>
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Question 7: Multiple Choice

4 marks

Clear lime water is a solution of

- | | |
|----------|-----------------------------|
| A | calcium carbonate and water |
| B | sodium carbonate and water |
| C | calcium hydroxide and water |
| D | sodium hydroxide and water |

Question 8: Text Input

3 marks

What is the **name** of the gas released during the decomposition of **potassium permanganate** by means of heat?

Question 9: True/False

2 marks

When an electric current is passed through a solution of copper chloride, gas is produced at both electrodes.

 TRUE **FALSE**

Question 10: Multiple Choice

4 marks

The formula of ammonia is

- | | |
|----------|-----------------|
| A | AOH |
| B | NH ₃ |
| C | NH |
| D | NH ₂ |
-

Question 11: Text Input

3 marks

When different populations are together in an ecosystem they are referred to as a

Question 12: Please Fill In The Blanks

4 marks

The mass number of an atom is the sum of the uncharged (1) and the charged (2) .

Possible Answers: electrons | nucleus | neutrons | protons

1	<input type="text"/>	2	<input type="text"/>
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Question 13: Text Input

3 marks

When a solid is heated the particles absorb the heat energy and this is converted to ... energy.

Question 14: Multiple Choice

4 marks

Which of the following is used during the process of photosynthesis?

- A: carbon dioxide
- B: oxygen and water
- C: water
- D: all of the above

A	A only
B	B only
C	A and C
D	D only

Question 15: Please Fill In The Blanks

4 marks

Organisms that belong (1) species that live in a particular (2) are known as a population.

Possible Answers: to different | to the same | country | habitat

1	<input type="text"/>	2	<input type="text"/>
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Question 16: Please Fill In The Blanks

4 marks

When the forces of attraction between particles are very weak, the particles will have (1) kinetic energy and the (2) .

Possible Answers: more | less | spaces will be larger | spaces will be smaller

1	<input type="text"/>	2	<input type="text"/>
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This image refers to question: 17



Question 17: True/False

2 marks

There is 500ml of liquid in the measuring cylinder.

The level of the liquid on the measuring cylinder will be higher on a hot day, due to the expansion of the glassware.

TRUE

FALSE

Question 18: Multiple Choice

4 marks

When a gas changes into a liquid, ...

- A. the particles have less energy.
- B. the particles move slower.
- C. the particles expand.
- D. the spaces between the particles decrease.

- | | |
|----------|------------|
| A | A and B |
| B | A, B and D |
| C | B and D |
| D | B, C and D |
-

Question 19: Text Input

3 marks

We call the change of **phase** when a liquid changes to a gas

Question 20: True/False

2 marks

When a material is cooled the particles move less. The space between the particles **gets smaller** and the material loses some of its particles.

- | | |
|-------------|--------------|
| TRUE | FALSE |
|-------------|--------------|
-

Question 21: Text Input

3 marks

On the Periodic Table, **Be** represents the element

Question 22: Multiple Choice

4 marks

Which of the following is true concerning a food chain?

- A: It sometimes starts with a decomposer.
- B: It always ends with a decomposer.
- C: It always starts with a producer.
- D: It sometimes ends with a producer.

- | | |
|----------|---------|
| A | A only |
| B | C only |
| C | B and C |
| D | A and D |
-

Question 23: True/False

2 marks

The only gas that passes through the stomata of a plant is carbon dioxide.

TRUE

FALSE

Question 24: Multiple Choice

4 marks

Crystals of table salt are added to a beaker. When water is added to the beaker the salt dissolves because (Choose the best possible answer).

- | | |
|----------|--|
| A | the water is warmer than the salt |
| B | the water is colder than the salt |
| C | the forces between the salt particles are broken |
| D | water has spaces between its particles |
-

Question 25: Multiple Choice

4 marks

Which is the BEST description of carbon dioxide?

It consists of

- | | |
|----------|--|
| A | atoms of carbon and molecules of dioxide |
| B | molecules of carbon and atoms of oxygen |
| C | one molecule of carbon and two molecules of oxygen |
| D | one atom of carbon and two atoms of oxygen. |
-

Question 26: Please Fill In The Blanks

6 marks

An experiment is conducted to investigate whether or not a solution of copper chloride can be broken down by means of electricity. Arrange the steps into the correct order.

Step 1: (1) .

Step 2: (2) .

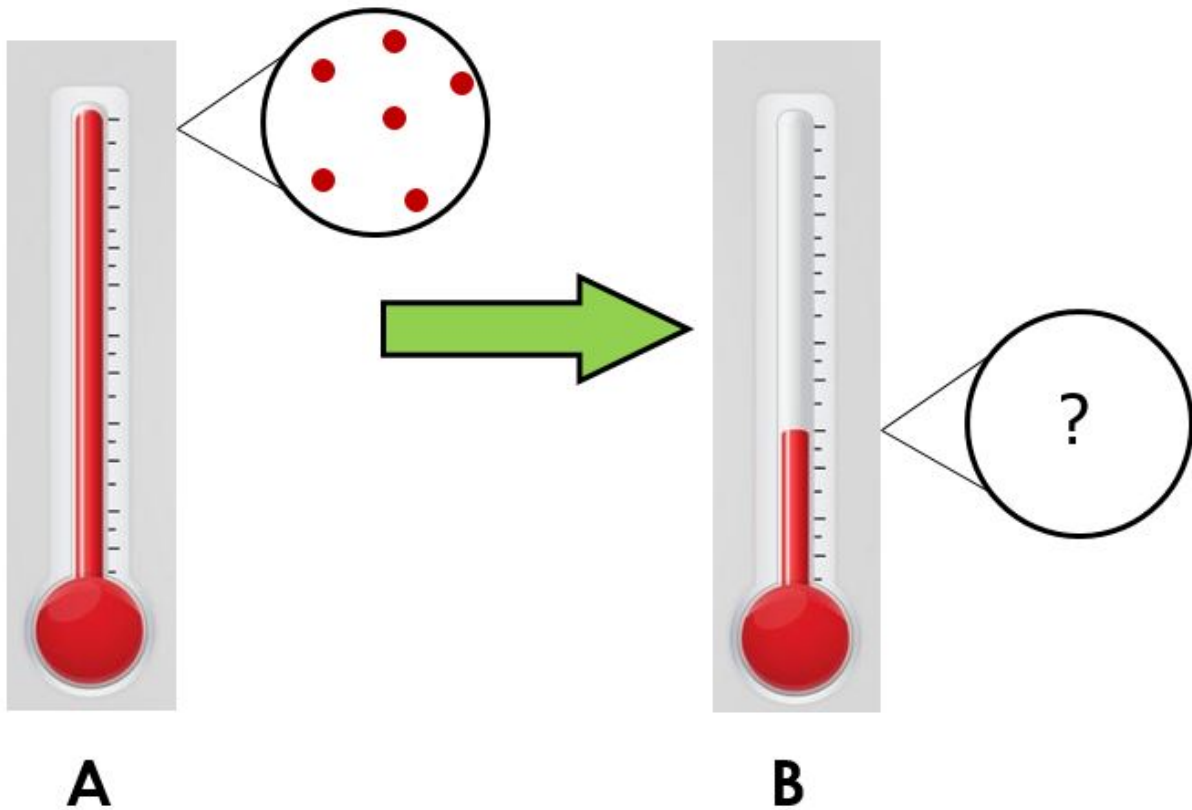
Step 3: (3) .

Possible Answers: close the circuit | pour in enough copper chloride solution to cover the electrodes | place the electrodes into the glass beaker

1	
3	

2	
----------	--

This image refers to question: 27



Question 27: Please Fill In The Blanks

10 marks

The particles in **A** are (1) due to (2) . To bring the temperature **down** to the level in **B**, the thermometer was placed in a (3) environment. This, then (4) causing the particles to (5)

Possible Answers: cooler | warmer | added energy | removed energy | further apart | move closer together

1	
3	
5	

2	
4	

Question 28: True/False

2 marks

A molecule of ammonia is comprised of four elements.

TRUE

FALSE

Question 29: Text Input

3 marks

Animals that eat both plants and animals are known as

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Question 30: Please Fill In The Blanks

8 marks

When a solid is heated, it reaches its (1) point and will then change phase into a (2) . For example when (3) turns into (4) .

Possible Answers: ice | water | melting | boiling | liquid | gas

1	
3	

2	
4	

Total: 112 Marks