Grade 6 IGCSE Science Quizzes and Recap Questions for Chapters on Matter, Forces, Light, Circuits, Rocks, and Soil / LearningCorner.co

Instructions

Read each question car	refully and	answer to	the best	of your	ability.	The questions	are divid	ed by
chapter and subtopic. (Good luck!							

Chapter 5: Properties of Matter

5A: Properties of Evaporation

1. Fill in the blanks to complete the sentences about evaporation.

Evaporation is the process where a liquid turns into a	without boiling. The rate of
evaporation can be increased by increasing the	of the liquid, increasing the
area exposed to the air, and by increasing the	flow (wind) over the
surface.	

5B: Boiling and Evaporation

2. Complete the table below to compare boiling and evaporation.

Feature Evaporation		Boiling		
Temperature Can occur at any temperature.				
Location in Liquid		Occurs throughout the entire liquid.		
Bubbles		Bubbles are formed.		

Chapter 6: Physical and Chemical Changes

6A: Physical Changes

- 3. Are the following statements True or False? Circle the correct answer.
 - o a) Tearing a piece of paper is a physical change. (True / False)
 - b) In a physical change, a new substance is formed. (True / False)
 - o c) Melting an ice cube is an example of a physical change. (**True / False**)

6B: Dissolving

4	Match	the	term	with	its	correct	definition
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- A. Solute 1. The liquid in which a substance dissolves.
- B. Solvent 2. The mixture formed when a substance dissolves in a liquid.
- C. Solution 3. The substance that dissolves in a liquid.

6C: Chemical Reactions

5.	List three signs that a che	mical reaction	(a chemical	change) may	have occurred.
6.					
7.					

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8.		
hap	ter 7: Effects of F	Forces
'A: M	ass, Weight, and Gra	vity
6.	Choose the correct	word to complete each sentence.
	a) The amount of '(kg).	stuff' in an object is called its (mass / weight) and is measured in kilograms
	b) The force of gra (N).	vity pulling on an object is its (mass / weight) and is measured in Newtons
	c) If you travelled t would stay the san	to the Moon, your (mass / weight) would change, but your (mass / weight) ne.
/B: Fo	orces in Action	
		ve one example of when friction is helpful.
	movement when for	n an object described as 'balanced'? What happens to the object's orces are balanced?
-	ter 8: Movement	of Light
	When light hits a s	mooth, shiny surface like a mirror, it bounces off. This is called reflection. tion" states that the angle of incidence is equal to the angle of
BB: Re	efraction of Light	
		a straw placed in a glass of water appears to be bent.
Chan	ter 9: More Abou	t Electrical Circuits
_	rcuit Symbols and Di	
	-	omponent to its standard symbol description.
±±.	A. Bulb (Lamp)	A long line and a short line, representing positive and negative terminals.
	B. Switch (Open)	2. A circle with a cross inside it.

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3. A break in the line with a small circle at the end of

	C. Cell	3. A break in the line with a small circle at the end of each line segment.
	D. Buzzer	4. A circle with a semi-circle inside it, like a small dome.
9B: T	ypes of Circuit	
12.		ve two circuits, each with two light bulbs. One is a series circuit and the other is t. What happens in each circuit if one of the bulbs breaks?
	Series Circuit	
	Parallel Circui	t:
Chap	oter 10: More a	bout Rocks
10A:	Types of Rocks	
13.	Fill in the blank	s with the correct type of rock (Igneous, Sedimentary, or Metamorphic).
	a)	rocks are formed from cooled magma or lava.
	b) together over a	rocks are formed from layers of sand, mud, and pebbles that are squeezed long time.
	c)	rocks are formed when other rocks are changed by intense heat or pressure.
10B:	The Rock Cycle	
14.	Complete the s	entences describing the rock cycle.
		weathered and eroded, they break down into small pieces called When magma cools and hardens, it becomes rock. When a rock intense heat and pressure, it can change into a rock.
Chap	oter 11: Soil	
11A:	Types of Soil	
15.	slowly. • Sandy Se	pe, state if its particles are large or small, and if it drains water quickly or pil: Particles are, and it drains water Particles are, and it drains water
11B:	Soil Composition	and Plant Growth
17. 18.	List the four ma 1 2 3	<u></u>

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20.	4.	

21. What is 'humus' and why is it important for plant growth?

22.	

Answer Key

Chapter 5: Properties of Matter

1. gas, temperature, surface, air

Feature	Evaporation	Boiling	
Temperature	Can occur at any temperature.	Occurs only at a specific temperature (the boiling point).	
Location in Liquid	Only occurs on the surface of the liquid.	Occurs throughout the entire liquid.	
Bubbles	No bubbles are formed.	Bubbles are formed.	

Chapter 6: Physical and Chemical Changes

- 3. a) True, b) False, c) True
- 4. A 3, B 1, C 2
- 5. Any three of the following: color change, gas produced (bubbles), heat or light produced, a new solid (precipitate) is formed, a new smell is produced.

Chapter 7: Effects of Forces

- 6. a) mass, b) weight, c) weight, mass
- 7. Friction is a force that opposes motion between two surfaces in contact. A helpful example is the grip between car tires and the road, or the grip of your shoes on the ground.
- 8. Forces are 'balanced' when they are equal in size and opposite in direction. When forces are balanced, a stationary object stays still, and a moving object continues to move at a constant speed and direction.

Chapter 8: Movement of Light

- 9. reflection
- 10. Light travels at different speeds in different materials (mediums). When light passes from the water to the air, it bends (refracts) because it speeds up. This bending makes the part of the straw in the water appear to be in a different position.

Chapter 9: More About Electrical Circuits

- 11. A 2, B 3, C 1, D 4
- 12. **Series Circuit:** The other bulb will go out because the break in the first bulb creates a gap in the single path for the electricity.

Parallel Circuit: The other bulb will stay lit because the electricity still has a complete, separate path (branch) to flow through.

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Chapter 10: More about Rocks

- 13. a) Igneous, b) Sedimentary, c) Metamorphic
- 14. sediment, igneous, metamorphic

Chapter 11: Soil

- 15. Sandy Soil: Particles are large, and it drains water quickly.
- 16. Clay Soil: Particles are small, and it drains water slowly.
- 17. The four main components are: 1. Minerals (from weathered rock), 2. Organic matter (humus), 3. Air, 4. Water.
- 18. Humus is the dark, organic material in soil, formed from decomposed plants and animals. It is important because it is rich in nutrients that plants need to grow and it helps the soil hold water.