

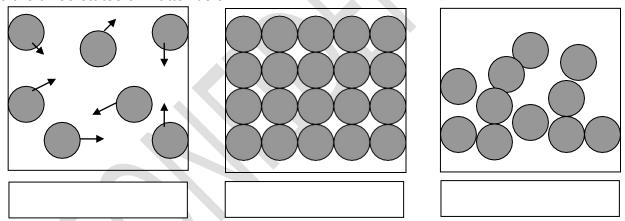
# **Grade 6 - Science Student Review Pack**

Week	Topic	Lesson	Resources	
Week 13	Particle Theory	States of Matter	Longman Chemistry pg 20-29	
Week 14	,		Longman Chemistry pg 30-35	
Week 17			Longman Chemistry pg 45	
Week 18 Chemistry		Chemical Reactions	Longman Chemistry pg 14	

<sup>\*</sup>if Longman Chemistry textbook is not available, use notes and booklets provided in class.

## **Particle Theory - States of Matter**

Name the three states of matter below:



Writ	e one sentence to describe the <b>particle</b> arrangement for each of the above states:
a)	
b)	
,	
c)	
,	

Name the processes that are described below:

Example: solid + heating = melting

- a) gas + cooling = \_\_\_\_\_
- b) liquid + heating = \_\_\_\_\_
- c) liquid + cooling = \_\_\_\_\_
- d) solid → gas = \_\_\_\_\_

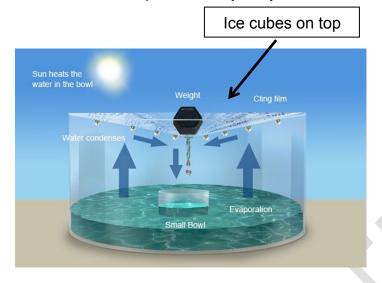
## **The Water Cycle**

Try an experiment at home!
Search 'Water Cycle Experiment' on YouTube.
<a href="https://www.youtube.com/watch?v=2rwFK5">https://www.youtube.com/watch?v=2rwFK5</a> Vigo

Hot water **evaporates** and the steam rises.

It comes into contact with the cold cling film with ice and it condenses.

The water then drops down as **precipitation** and is collected in the smaller beaker.



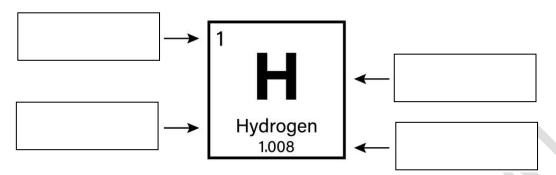
## **Particle Theory - Air Pressure**

Complete the sentences using the word bank:						
thermometer	faster	contracts	closer	substance	cooled	
		COLD	НОТ			
When a	is	heated, the particles	s move	cau	sing it to	
	_·					
When a substan substance		, the particl	es move	to	each other. The	
This describes how a works.						
The <b>density</b> of an object is its mass per unit volume.						
density = mass / volume						
A sugar cube has a <b>mass</b> of 16g.						
Each side of the cube is 2cm in length.						
(Remember: volume = length x width x height)						
Calculate the <b>de</b>	Calculate the <b>density</b> of the sugar cube:					

#### **Chemistry - The Periodic Table**

Use the Periodic Table on page 45 of the Longman Chemistry Textbook, Unit 2.2, Elements.

1. Label the parts of the hydrogen element: name, atomic number, atomic weight, symbol.



2.	What are	the symbols	for the	following	elements?

- a) Magnesium \_\_\_\_\_
- b) Potassium
- c) Iron \_\_\_\_\_
- d) Copper \_\_\_\_\_

3.	What are	the names	of the	following	elements?	•
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- a) C \_\_\_\_\_
- b) Cl
- c) Au
- d) Sr

#### 4. What are the atomic numbers of the following elements?

- a) Calcium \_\_\_\_\_
- b) Iron
- c) Gold
- d) Uranium

### 5. Which element is used to kill bacteria in swimming pools?

6. Which element is used to blow up party balloons?

7. Which element is often used in batteries? \_\_\_\_\_\_

8. Which element is commonly used in toothpaste? \_\_\_\_\_

9. Which two elements are commonly used to make jewellery?

10. Which element is used to clean cuts and wounds? \_\_\_\_\_

Go to Longman Chemistry Textbook, Unit 2.3, Elements, compounds and mixtures Page 52. Answer Q4.

## **Chemistry - Chemical Reactions**

Chemical reactions are when materials are changed and **new** substances are made.

Wri a) b)	ite 3 examples of chemical rea	_ ΣÄŞ		
c)				
Со	mplete the sentence using the			
١٨/٥	colour	heat	rologod	gas or taken in
vve	know a chemical reaction is l	-	released	or taken in,
	101111411011 4114 4	onango.		
Ch	emical equation:			
(	$C + O_2 \rightarrow CO_2$			
		inanda.		
a) b)	Write this chemical equation The reactants are the starting		hat are the reactants	in this reaction?
D)	The reactants are the starting	g materials in a reaction. W	nat are the reactants	on this reaction:
c)	The products are the substar	nces made in a reaction. W	hat is the product of	this reaction?
Dic	e Science Behind the Colou I you know that fireworks were the guide to colour the firew  BaCl2	e different colours because orks!	of the minerals and of SrCu	elements present?
	ORANG	Fe Ca2+	JE PURPLE	
	Ca2+	SrCO3 Cu	Cl Strontium Copper Cl SrCu	
	GREE Barium Chlor		OW SILVER Aluminum	

BaCl2