MINISTRY OF GENERAL EDUCATION

COMMON SCHEME OF WORK
GRADE 10 TERM ONE 2018 AND BEYOND
PURE CHEMISTRY

WEEK	TOPIC / CONTENT	OUTCOMES (Pupils Should)	METHODS	REFERENCES
1	**INTRODUCTION TO CHEMISTRY**	Demonstrate an appreciation of safety in the laboratory Describe chemistry Classify the branches of chemistry Explain the importance of chemistry Describe the challenges of chemical industrial activities	Question and answer Discussion Lecture	Chemistry 10 pupils book O level chemistry for southern Africa Key point Science – Chemistry New certificate Chemistry Fundamentals of chemistry
2	**THE PARTICULATE NATURE OF MATTER** Matter and the Kinetic theory	Describe matter Classify the basic units of matter Classify the states of matter.	▪ Question and answer ▪ Discussion	O level chemistry for southern Africa Key point Science – Chemistry Chemistry 10 pupils book New certificate Chemistry Fundamentals of chemistry
3		Illustrate changes of states of matter Changes of states such as melting, freezing, boiling, condensation, sublimation in terms of kinetic theory	▪ Question and answer ▪ Discussion ▪ Practical	O level chemistry for southern Africa Key point Science – Chemistry Chemistry 10 pupils book New certificate Chemistry Fundamentals of chemistry
4	**TEST 1**	Illustrate changes of states of matter Changes of states such as melting, freezing, boiling, condensation, sublimation in terms of kinetic theory	▪ Question and answer ▪ Discussion ▪ Practical	O level chemistry for southern Africa Key point Science – Chemistry Chemistry 11 pupils book New certificate Chemistry Fundamentals of chemistry
5		Describe the absorption of heat and release of heat during changes of	▪ Question and answer	O level chemistry for southern Africa Key point Science – Chemistry

		states of matter (Changing states of matter, exothermic-release of heat during a reaction)	▪ Discussion ▪ Practical	Chemistry 10 pupils book New certificate Chemistry Fundamentals of chemistry
6		Describe the absorption of heat and release of heat during changes of states of matter(Changing states of matter,endothermic-absorption of heat during a reaction, include heating and cooling curves)	▪ Question and answer ▪ Discussion ▪ Lecture ▪ Practical	O level chemistry for southern Africa Key point Science – Chemistry Chemistry 10 pupils book New certificate Chemistry Fundamentals of chemistry
7	Brownian motion	Describe Brownian motion Describe an experiment to demonstrate Brownian motion	▪ Question and answer ▪ Discussion ▪ Demonstration	O level chemistry for southern Africa Key point Science – Chemistry Chemistry 10 pupils book New certificate Chemistry Fundamentals of chemistry
8	Diffusion **TEST 2**	Describe diffusion Demonstrate diffusion in fluids	▪ Question and answer ▪ Discussion ▪ Lecture	O level chemistry for southern Africa Key point Science – Chemistry Chemistry 10 pupils book New certificate Chemistry Fundamentals of chemistry
9		Demonstrate diffusion in gases Describe the factors that affect the rate of diffusion (Factors of diffusion E.g. molecular mass, temperature, concentration)	▪ Question and answer ▪ Discussion ▪ Lecture	O level chemistry for southern Africa Key point Science – Chemistry Chemistry 10 pupils book New certificate Chemistry Fundamentals of chemistry
10	**EXPERIMENTAL TECHNIQUES** Measuring of quantities	Demonstrate how different quantities are measured. Identify different measuring apparatus used in chemistry	▪ Question and answer ▪ Discussion ▪ Practical	O level chemistry for southern Africa Key point Science – Chemistry Chemistry 10 pupils book New certificate Chemistry Fundamentals of chemistry
11		Identify various measuring instrument and other apparatus used in chemistry	▪ Question and answer ▪ Discussion	O level chemistry for southern Africa Key point Science – Chemistry Chemistry 10 pupils book

				New certificate Chemistry Fundamentals of chemistry
12	End of term tests	Pass the end of term test	▪ Question and answer	End of term papers
13	End of term tests	Pass the end of term test	▪ Question and answer	End of term papers