



MINISTRY OF GENERAL EDUCATION

NORTHERN PROVINCE

PROVINCIAL SCHEMES OF WORK FOR CHEMISTRY 5070

Subject: CHEMISTRY 5070 Grade: 10 Term: One Year: 2016 Teacher: -----periods per week: 6

WEEK	TOPIC	SUB-TOPIC	SPECIFIC OUTCOMES	METHODOLOGY	SUGGESTED EXPERIMENTS	REFERENCES
1	Introduction to Chemistry	* Introduction to Chemistry	* Describe Chemistry. * Classify the branches of chemistry	-Question and answer	-	-New certificate chemistry
2	Introduction to Chemistry		* Explain the importance of chemistry. * Describe the challenges of chemical industrial activities -Demonstrate an appreciation of safety in the laboratory.	-Group Discussion		-Complete Chemistry

3	The particular nature of matter.	-Matter and the kinetic theory.	-describe matter -classify the basic units of matter -Classify the state of matter	Question and answer Demonstration Discussion		Complete chemistry senior Secondary chemistry 10 Chemistry
4	The particular nature of matter.	-Matter and the kinetic theory.	- Illustrate changes of states of matter -describe the absorption of heat and release of heat during changes of state of state of matter	Demonstration Discussion	-use of pure ice to illustrate the change of state of mater	GCSE Chemistry
5		* Diffusion	-Describe diffusion -Demonstrate diffusion in fluids - Describe the factors that affect the rate of diffusion	Demonstration Discussion	-use of potassium permanganate crystals in water to demonstrate diffusion.	GCSE Chemistry Senior Secondary chemistry 10
6	Experimental Techniques	*Measuring of quantities	-Demonstrate how different quantities are measured	Demonstration Discussion	-use of stop watch to determine time, beam balance to measure mass, thermometers to determine the	GCSE Chemistry Senior Secondary

7	Experimental Techniques		- Identify different measuring apparatus used in chemistry.	Demonstration	temperature of a substance - use of various instruments to measure volume etc.	chemistry 10
8	Experimental Techniques		- Identify various measuring instrument and other apparatus used in chemistry	Demonstration		
9	Experimental Techniques	*Criteria of purity	Describe the differences between a pure substance and a mixture. Demonstrate how to determine the purity of a substance	Question and Answer Demonstration	-determination of densities, boiling, melting and freezing point of pure and impure substances.	New certificate chemistry Chemistry 10
10	Experimental Techniques		- Explain the importance of purity of a substance	discussion		
11	Experimental Techniques	Separating mixtures	-Distinguish between physical and chemical changes -Demonstrate different methods of separating mixtures such as Decantation, filtration,	Demonstration	-burning of paper and melting and freezing of ice • Carry out experiments such as decantation, filtration,	New certificate chemistry GCSE Chemistry
12 & 13	REVISION AND END OF TERM TEST		\		•	