MINISTRY OF GENERAL EDUCATION

NORTHERN PROVINCE

PROVINCIAL SCHEMES OF WORK FOR CHEMISTRY 5070

SUBJECT: CHEMISTRY 5070   GRADE: 10 TERM: THREE   YEAR: 2016   TEACHER: ----------------------- 6 PERIODS PER WEEK

WEEK	TOPIC	SUB-TOPIC	SPECIFIC OUT	METHODOLOGY	SUGGESTED EXPERIMENTS
1	**Atoms, elements, compounds and molecules**	Chemical formulae	Demonstrate how to deduce valency of an element. -Formulate chemical formulae of compounds.	Question and answer

Illustration | |
| 2 | **Atoms, elements, compounds and molecules** | | Demonstrate how to deduce valency of an element. -Formulate chemical formulae of compounds. | Illustration

Question and answer | |
| 3 | **Atoms, elements, compounds and molecules** | | -Identify the differences in properties of ionic and covalent compounds. | discussion | |
| 4 | **Atoms, elements, compounds and molecules** | METALLIC BONDING | -Describe metallic bonding - Describe the electrical/thermal conductivity of metals | | Demonstrate thermal a electrical conductivitie metals. |

5	Atoms, elements, compounds and molecules	Macromolecules	Describe the giant covalent structures of graphite and diamond Describe the uses of graphite and diamond in relation to their structures	Discussion Question and Answer	
6	Atoms, elements, compounds and molecules	Macromolecules	Describe the macromolecular structure of silicon (IV) oxide(silicon dioxide)	Discussion Question and Answer	
7	Atoms, elements, compounds and molecules	Macromolecules	Identify the similarities in properties between diamond and silicon dioxide	Discussion Question and Answer	
8	Atoms, elements, compounds and molecules	*Chemical formulae and equation	Demonstrate how to construct word equations.	Question and Answer	

9	**Atoms, elements, compounds and molecules**	Balancing of chemical equation	Formulate balanced chemical equations.	Class Discussion Question and answer	
10	**Atoms, elements, compounds and molecules**	Ionic equations	- Construct net ionic equations from balanced chemical equations.	illustration Discussion	-demonstrate the electrical conductivity graphite
11, 12 & 13	**Revision and end of term test**				