

Main competence	Specific competence	Learning Activities	Specific activities	Month	Week	Periods	Reference	Teaching and learning methods	Teaching and learning resources	Assessment tools	Remarks
Orientation course (13/01/2025- 21/02/2025)											
1.0 Demonstrate mastery of basic concepts, theories and principles in chemistry	1.1Demonstrate mastery of concepts, theories and principles in Chemistry	(a)Describe the concept of Chemistry (<i>meaning, branches, applications and relationships with other disciplines</i>)	Define chemistry, give its branches, show where it is applied,and relationship with other discipline	February	Week 4	2	TIE(2023) Chemistry for secondary school, Students book One,TIE	Group discussions, Project work, Presentation, Experimentation , Laboratory, Brainstorming, ICT Based learning, Field visit	Pictures, diagrams, simulations, animations or videos illustrating the meaning, branches, applications and relationship with other disciplines	Quizzes, Tests, Question and answers Project work Group discussions	
1.0 Demonstrate mastery of basic concepts, theories and principles in chemistry	1.1Demonstrate mastery of concepts, theories and principles in Chemistry	(a)Describe the concept of Chemistry (<i>meaning, branches, applications and relationships with other disciplines</i>)	Define chemistry, give its branches, show where it is applied,and relationship with other discipline	February	Week 4	1	TIE(2023) Chemistry for secondary school, Students book One,TIE	Group discussions, Project work, Presentation, Experimentation , Laboratory, Brainstorming, ICT Based learning, Field visit	Pictures, diagrams, simulations, animations or videos illustrating the meaning, branches, applications and relationship with other disciplines	Quizzes, Tests, Question and answers Project work Group discussions	
1.0 Demonstrate mastery of basic concepts, theories and principles in chemistry	1.1Demonstrate mastery of concepts, theories and principles in Chemistry	Define chemistry, give its branches, show where it is applied,and relationship with other discipline	Define chemistry, give its branches, show where it is applied	March	Week 1	2	TIE(2023) Chemistry for secondary school, Students book One,TIE	Group discussions, Project work, Presentation, Experimentation , Laboratory, Brainstorming, ICT Based learning, Field visit	Pictures, diagrams, simulations, animations or videos illustrating the meaning, branches, applications and relationship with other disciplines	Quizzes, Tests, Question and answers Project work Group discussions	

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1.0 Demonstrate mastery of basic concepts, theories and principles in chemistry	1.1Demonstrate mastery of concepts, theories and principles in Chemistry	(b) Discuss the contribution of Chemistry in the development of modern society	Visiting nearby health facility, Industry, Mining or Agricultural farm to discuss the importance of chemistry to the development of society	March	Week 2	2	TIE(2023) Chemistry for secondary school, Students book One, TIE	Group discussions, Project work, Presentation, Experimentation, Laboratory, Brainstorming, ICT Based learning, Field visit	Periodic table, copper, zinc, aluminium, iron, sulphur, hydrogen, common salt, iron filings, magnet, powdered sulphur,	Quizzes, Tests, Question and answers Project work Group discussions	
1.0 Demonstrate mastery of basic concepts, theories and principles in chemistry	1.1Demonstrate mastery of concepts, theories and principles in Chemistry	(b) Discuss the contribution of Chemistry in the development of modern society	Visiting nearby health facility, Industry, Mining or Agricultural farm to discuss the importance of chemistry to the development of society	March	Week 2	2	TIE(2023) Chemistry for secondary school, Students book One, TIE	Group discussions, Project work, Presentation, Experimentation, Laboratory, Brainstorming, ICT Based learning, Field visit	Periodic table, copper, zinc, aluminium, iron, sulphur, hydrogen, common salt, iron filings, magnet, powdered sulphur,	Quizzes, Tests, Question and answers Project work Group discussions	

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1.0 Demonstrate mastery of basic concepts, theories and principles in chemistry	1.1 Demonstrate mastery of concepts, theories and principles in Chemistry	(c) Describe the concept of matter (<i>physical and chemical changes of matter</i>)	Show how changes occur, identify types of changes	March	Week 3	1	TIE(2023) Chemistry for secondary school, Students book One, TIE	Group discussions, Project work, Presentation, Experimentation, Laboratory, Brainstorming, ICT Based learning, Field visit	Periodic table, copper, zinc, aluminium, iron, sulphur, hydrogen, common salt, iron filings, magnet, powdered sulphur,	Quizzes, Tests, Question and answers Project work Group discussions	
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								MID TERM EXAM-31/03/2025-10/04/2025 MID TERM BREAK-11/04/2025-22/04/2025			
1.0 Demonstrate mastery of basic concepts, theories and principles in chemistry	1.1 Demonstrate mastery of concepts, theories and principles in Chemistry	(d) Describe the concepts of chemical elements (<i>criteria for assigning chemical symbols</i>), compounds (<i>binary compound</i>) and mixtures (<i>types of solution and separation of mixtures</i>)	Assign symbols to elements	April	Week 4	2	TIE(2023) Chemistry for secondary school, Students book One, TIE	Group discussions, Project work, Presentation, Experimentation, Laboratory, Brainstorming, ICT Based learning, Field visit	Periodic table, copper, zinc, aluminium, iron, sulphur, hydrogen, common salt, iron filings, magnet, powdered sulphur,	Quizzes, Tests, Question and answers Project work Group discussions	

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j	t	r	r	p	s	s	o	
e	w	k	o	d	c	s	n	

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1.0 Demonstrate mastery of basic concepts, theories and principles in chemistry	1.1Demonstrate mastery of concepts, theories and principles in Chemistry	(d) Describe the concepts of chemical elements (<i>criteria for assigning chemical symbols</i>), compounds (<i>binary compound</i>) and mixtures (<i>types of solution and separation of mixtures</i>)	Assign symbols to elements	April	Week 4	2	TIE(2023) Chemistry for secondary school, Students book One,TIE	Group discussions, Project work, Presentation, Experimentation , Laboratory, Brainstorming, ICT Based learning, Field visit	Periodic table, copper, zinc, aluminium, iron, sulphur, hydrogen, common salt, iron filings, magnet, powdered sulphur,	Quizzes, Tests, Question and answers Project work Group discussions	
1.0 Demonstrate mastery of basic concepts, theories and principles in chemistry	1.1Demonstrate mastery of concepts, theories and principles in Chemistry	(d) Describe the concepts of chemical elements (<i>criteria for assigning chemical symbols</i>), compounds (<i>binary compound</i>) and mixtures (<i>types of solution and separation of mixtures</i>)	Assign symbols to elements	May	Week 1	3	TIE(2023) Chemistry for secondary school, Students book One,TIE	Group discussions, Project work, Presentation, Experimentation , Laboratory, Brainstorming, ICT Based learning, Field visit	Periodic table, copper, zinc, aluminium, iron, sulphur, hydrogen, common salt, iron filings, magnet, powdered sulphur,	Quizzes, Tests, Question and answers Project work Group discussions	

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1.0 Demonstrate mastery of basic concepts, theories and principles in chemistry	1.1 Demonstrate mastery of concepts, theories and principles in Chemistry	(d) Describe the concepts of chemical elements (<i>criteria for assigning chemical symbols</i>), compounds (<i>binary compound</i>) and mixtures (<i>types of solution and separation of mixtures</i>)	Assign symbols to elements	May	Week 2	3	TIE(2023) Chemistry for secondary school, Students book One, TIE	Group discussions, Project work, Presentation, Experimentation, Laboratory, Brainstorming, ICT Based learning, Field visit	Periodic table, copper, zinc, aluminium, iron, sulphur, hydrogen, common salt, iron filings, magnet, powdered sulphur,	Quizzes, Tests, Question and answers Project work Group discussions	
1.0 Demonstrate mastery of basic concepts, theories and principles in chemistry	1.1 Demonstrate mastery of concepts, theories and principles in Chemistry	(e) Compare the properties of compounds with those of constituent elements	Identify, elements, mixtures and compounds	May	Week 3	3	TIE(2023) Chemistry for secondary school, Students book One, TIE	Group discussions, Project work, Presentation, Experimentation, Laboratory, Brainstorming, ICT Based learning, Field visit	Periodic table, copper, zinc, aluminium, iron, sulphur, hydrogen, common salt, iron filings, magnet, powdered sulphur,	Quizzes, Tests, Question and answers Project work Group discussions	
1.0 Demonstrate mastery of basic concepts, theories and principles in chemistry	1.1 Demonstrate mastery of concepts, theories and principles in Chemistry	(e) Compare the properties of compounds with those of constituent elements	Identify, elements, mixtures and compounds	May	Week 4	3	TIE(2023) Chemistry for secondary school, Students book One, TIE	Group discussions, Project work, Presentation, Experimentation, Laboratory, Brainstorming, ICT Based learning, Field visit	Diagrams, pictures, wall charts, simulations and videos illustrating 1 st 2 0 elements in the Periodic Table; metals and non-metals	Quizzes, Tests, Question and answers Project work Group discussions	

TERMINAL EXAM- 26/05/2025-05 /06/2025 END OF TERM ONE HOLIDAY BREAK-06 /06/2025-08/07/2025

Main competence	Specific competence	Learning Activities	Specific activities	Month	Week	Periods	Reference	Teaching and learning methods	Teaching and learning resources	Assessment tools	Remarks
3.0 Conduct biological investigations	3.1 Demonstrate mastery of basic skills for conducting biological investigations	(a) Describe the basic skills for conducting biological experiments (<i>observation, measurement and experimentation</i>)	Carry out experiments Use sense organs	July	Wee k 2	3	TIE(2023) Chemistry for secondary school, Students book One,TIE	Group discussions, Project work, Presentation, Experimentation, Laboratory, Brainstorming, ICT Based learning, Field visit	Variety of living organisms, preserved specimens, charts on major groups of organisms, and classification online resources	Quizzes, Tests, Question and answers Project work Group discussions	
					Wee k 3	2	TIE(2023) Chemistry for secondary school, Students book One,TIE	Group discussions, Project work, Presentation, Experimentation, Laboratory, Brainstorming, ICT Based learning, Field visit	Texts and audio/ audiovisual materials for listening and speaking	Quizzes, Tests, Question and answers Project work Group discussions	
	3.1 Demonstrate mastery of basic skills for conducting biological investigations	(a) Describe the basic skills for conducting biological experiments (<i>observation, measurement and experimentation</i>)	Carry out experiments Use sense organs	July	Wee k 3	2	TIE(2023) Chemistry for secondary school, Students book One,TIE	Group discussions, Project work, Presentation, Experimentation, Laboratory, Brainstorming, ICT Based learning, Field visit	Diagrams, pictures, wall charts, simulations and videos illustrating 1 st 2 0 elements in the Periodic Table; metals and non-metals	Quizzes, Tests, Question and answers Project work Group discussions	

Main competence	Specific competence	Learning Activities	Specific activities	Month	Week	Periods	Reference	Teaching and learning methods	Teaching and learning resources	Assessment tools	Remarks
1.0 Demonstrate mastery of basic concepts, theories and principles in chemistry	1.1Demonstrate mastery of concepts, theories and principles in Chemistry	(e) Compare the properties of compounds with those of constituent elements	Identify, elements, mixtures and compounds	July	Week 4	3	TIE(2023) Chemistry for secondary school, Students book One,TIE	Group discussions, Project work, Presentation, Experimentation , Laboratory, Brainstorming, ICT Based learning, Field visit	Diagrams, pictures, wall charts, simulations and videos illustrating 1 st 2 0 elements in the Periodic Table; metals and non-metals	Quizzes, Tests, Question and answers Project work Group discussions	
1.0 Demonstrate mastery of basic concepts, theories and principles in chemistry	1.1Demonstrate mastery of concepts, theories and principles in Chemistry	(f) Explain the concept of the periodic table (<i>1st 20 elements in the Periodic Table; metals and non-metals</i>)	Identify, elements, mixtures and compounds	August	Week 1	3	TIE(2023) Chemistry for secondary school, Students book One,TIE	Group discussions, Project work, Presentation, Experimentation , Laboratory, Brainstorming, ICT Based learning, Field visit	Diagrams, pictures, wall charts, simulations and videos illustrating 1 st 2 0 elements in the Periodic Table; metals and non-metals	Quizzes, Tests, Question and answers Project work Group discussions	
1.0 Demonstrate mastery of basic concepts, theories and principles in chemistry	1.1Demonstrate mastery of concepts, theories and principles in Chemistry	(f) Explain the concept of the periodic table (<i>1st 20 elements in the Periodic Table; metals and non-metals</i>)	Draw periodic table and show elements	August	Week 2	3	TIE(2023) Chemistry for secondary school, Students book One,TIE	Group discussions, Project work, Presentation, Experimentation , Laboratory, Brainstorming, ICT Based learning, Field visit	Diagrams, pictures, wall charts, simulations and videos illustrating 1 st 2 0 elements in the Periodic Table; metals and non-metals	Quizzes, Tests, Question and answers Project work Group discussions	

Main competence	Specific competence	Learning Activities	Specific activities	Month	Week	Periods	Reference	Teaching and learning methods	Teaching and learning resources	Assessment tools	Remarks
2.0 Conduct Experiments in chemistry	2.1 Conduct experiments in Chemistry	(a) Describe basic Chemistry laboratory skills (<i>chemistry laboratory rules and safety measures, first aid, fire and firefighting, and Chemistry laboratory apparatus</i>)	Draw periodic table and show elements	August	Week 3	3	TIE(2023) Chemistry for secondary school, Students book One,TIE	Group discussions, Project work, Presentation, Experimentation , Laboratory, Brainstorming, ICT Based learning, Field visit	Diagrams, pictures, wall charts, simulations and videos illustrating 1 st 2 0 elements in the Periodic Table; metals and non-metals	Quizzes, Tests, Question and answers Project work Group discussions	
MID TERM EXAM-18/08/2025-28/08/2025-MID TERM BREAK-29/08/2025-15/09/2025											
2.0 Conduct Experiments in chemistry	2.1 Conduct experiments in Chemistry	(a) Describe basic Chemistry laboratory skills (<i>chemistry laboratory rules and safety measures, first aid, fire and firefighting, and Chemistry laboratory apparatus</i>)	Draw periodic table and show elements	Sept	Week 3	3	TIE(2023) Chemistry for secondary school, Students book One,TIE	Group discussions, Project work, Presentation, Experimentation , Laboratory, Brainstorming, ICT Based learning, Field visit	Diagrams, pictures, wall charts, simulations and videos illustrating 1 st 2 0 elements in the Periodic Table; metals and non-metals	Quizzes, Tests, Question and answers Project work Group discussions	
2.0 Conduct Experiments in chemistry	2.1 Conduct experiments in Chemistry	(a) Describe basic Chemistry laboratory skills (<i>chemistry laboratory rules and safety measures, first aid, fire and firefighting, and Chemistry laboratory apparatus</i>)	Make use of laboratory tools, observe laboratory rules	Sept	Week 4	3	TIE(2023) Chemistry for secondary school, Students book One,TIE	Group discussions, Project work, Presentation, Experimentation , Laboratory, Brainstorming, ICT Based learning, Field visit	Diagrams, pictures, wall charts, simulations and videos illustrating 1 st 2 0 elements in the Periodic Table; metals and non-metals	Quizzes, Tests, Question and answers Project work Group discussions	

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2.0 Conduct Experiments in chemistry	2.1 Conduct experiments in Chemistry	(a) Describe basic Chemistry laboratory skills (<i>chemistry laboratory rules and safety measures, first aid, fire and firefighting, and Chemistry laboratory apparatus</i>)	Make use of laboratory tools, observe laboratory rules	October	Week 1	3	TIE(2023) Chemistry for secondary school, Students book One,TIE	Group discussions, Project work, Presentation, Experimentation , Laboratory, Brainstorming, ICT Based learning, Field visit	Diagrams, pictures, wall charts, simulations and videos illustrating 1 st 2 0 elements in the Periodic Table; metals and non-metals	Quizzes, Tests, Question and answers Project work Group discussions	
2.0 Conduct Experiments in chemistry	2.1 Conduct experiments in Chemistry	(b) Describe the concept of electronic arrangements	Make use of laboratory tools, observe laboratory rules	October	Week 2	3	TIE(2023) Chemistry for secondary school, Students book One,TIE	Group discussions, Project work, Presentation, Experimentation , Laboratory, Brainstorming, ICT Based learning, Field visit	Laboratory manuals, models, pictures, wall charts with written laboratory rules, first aid kit, laboratory apparatus, fire	Quizzes, Tests, Question and answers Project work Group discussions	
2.0 Conduct Experiments in chemistry	2.1 Conduct experiments in Chemistry	(b) Describe the concept of electronic arrangements	Draw electronic arrangement of elements	October	Week 3	3	TIE(2023) Chemistry for secondary school, Students book One,TIE	Group discussions, Project work, Presentation, Experimentation , Laboratory, Brainstorming, ICT Based learning, Field visit	Laboratory manuals, models, pictures, wall charts with written laboratory rules, first aid kit, laboratory apparatus, fire	Quizzes, Tests, Question and answers Project work Group discussions	

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2.0 Conduct Experiments in chemistry	2.1 Conduct experiments in Chemistry	(b) Describe the concept of electronic arrangements	Draw electronic arrangement of elements	Nov	Week 1	3	TIE(2023) Chemistry for secondary school, Students book One,TIE	Group discussions, Project work, Presentation, Experimentation , Laboratory, Brainstorming, ICT Based learning, Field visit	Laboratory manuals, models, pictures, wall charts with written laboratory rules, first aid kit, laboratory apparatus, fire	Quizzes, Tests, Question and answers Project work Group discussions	
2.0 Conduct Experiments in chemistry	2.1 Conduct experiments in Chemistry	(c) Use the concept of atomic structure to determine the atomic and mass numbers of an element	Draw electronic arrangement of elements	Nov	Week 2	3	TIE(2023) Chemistry for secondary school, Students book One,TIE	Group discussions, Project work, Presentation, Experimentation , Laboratory, Brainstorming, ICT Based learning, Field visit	Laboratory manuals, models, pictures, wall charts with written laboratory rules, first aid kit, laboratory apparatus, fire	Quizzes, Tests, Question and answers Project work Group discussions	

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2.0 Conduct Experiments in chemistry	2.1 Conduct experiments in Chemistry	(c) Use the concept of atomic structure to determine the atomic and mass numbers of an element	Find mass number and atomic number	Nov	Wee k 3	3	TIE(2023) Chemistry for secondary school, Students book One,TIE	Group discussions, Project work, Presentation, Experimentation , Laboratory, Brainstorming, ICT Based learning, Field visit	Laboratory manuals, models, pictures, wall charts with written laboratory rules, first aid kit, laboratory apparatus, fire	Quizzes, Tests, Question and answers Project work Group discussions	
2.0 Conduct Experiments in chemistry	2.1 Conduct experiments in Chemistry	(c) Use the concept of atomic structure to determine the atomic and mass numbers of an element	Find mass number and atomic number	Nov	Wee k 4	3	TIE(2023) Chemistry for secondary school, Students book One,TIE	Group discussions, Project work, Presentation, Experimentation , Laboratory, Brainstorming, ICT Based learning, Field visit	Laboratory manuals, models, pictures, wall charts with written laboratory rules, first aid kit, laboratory apparatus, fire	Quizzes, Tests, Question and answers Project work Group discussions	

ANNUAL EXAMINATION 24 /11 / 2025 -04 /12 / 2025 END OF YEAR HOLIDAY 05 /12 / 2025

PRESIDENT OFFICE, REGIONAL ADMINISTRATION AND LOCAL GOVERNMENT

SCHEME OF WORK

SCHOOL NAME:

TEACHER'S NAME:

SUBJECT: **CHEMISTRY**

SUBJECT: **FORM ONE**

TERM: **I & II**

STUDYING YEAR: **2025**
