

PHYSICAL SCIENCE

COURSE OUTLINE 2010-11

MS. A. CAISSIE

MS. M. UNDERHILL

MR. K. BOWES

MR. P. MACDONALD

Unit One: Chemistry I (4-5 weeks)

Introduction: What is Chemistry?

Topics: Particle Theory, Types of Matter, WHMIS Safety

Chapter Five: Chemicals in Action

Topics: Chemical Change, Parts of an Atom, Elements and the Periodic Table, Compounds, Ionic Charges, Ionic Compounds, Polyatomic Compounds, Molecular Compounds, Writing and Understanding Chemical Equations

Unit Two: Chemistry II (3-4 weeks)

Chapter Six: Understanding Chemical Reactions

Topics: Word Equations, Conserving Mass, Balancing Chemical Equations, Combustion, Synthesis, Decomposition, Single and Double Replacement Reactions, Endothermic and Exothermic Reactions

Chapter Eight: Controlling Chemical Reactions

Topic: Factors that Affect Reaction, Catalysts and Enzymes

Unit Three: Physics I (4 weeks)

Chapter Nine (Science 9): Electrostatics (Electrostatique)

Topics: Charging by Friction, Transferring Charge by Contact, Insulators and Conductors

Chapter Ten (Science 9): The Control of Electricity in Circuits

Topics: Electricity and Electric Circuits, Electric Potential, Electrochemical Cells, Cells in Series and Parallel, Ohm's Law

Unit Four: Physics II (4 weeks)

Chapter Nine: Distance and Speed

Topics: Measurement and Calculations, Measuring Distances. Relating Speed to Distance and Time, Distance-Time Graphs

Chapter Ten: Distance, Speed and Acceleration

Topics: Acceleration, Speed-Time Graphs, Instantaneous Speed, Constant Acceleration

Chapter Eleven: Displacement and Velocity

Topics: Vectors, Adding Vectors, Velocity, Tracking and Position

Evaluation

Assignments and Labs	30%
Tests	40%
Exam	30%