Semester Two, 2017

Year 10 Extension

**Structure of the Exam Paper:**

**Time**- Reading time:10 minutes

Working time: 1 hour 30 minutes

**Questions:** 30 Multiple Choice ,

11 Short Answer,

2 Extended Answers (1 compulsory, 1 choice from two questions)

**Study Hints:**

The exam is designed to provide you with the opportunity to demonstrate what you have learnt in Science. Therefore, it will ask you to demonstrate skills and explain concepts and understandings we have already studied this year.

**Content:**

Chemistry: Atoms, Elements and Compounds, Periodic Table, Different types of Bonding and properties of substances with different bonds, Lewis Structures/ Electron dot diagrams, Chemical formulae, writing and balancing equations, ionic precipitation reactions.

Genetics: Definition of terms, DNA and its structure, mitosis and meiosis, dominant/recessive, co-dominance, incomplete dominance, sex linkage

Physics: Definitions, Calculations etc Law of Conservation of Energy, Potential and Kinetic Energy, Displacement and Distance, Speed, Velocity and Acceleration, Weight/ Force/ Net Force, Work Done, Newton’s Laws

Evolution: Evolution, Natural Selection and how they work together.