

## **Grade 11      November Exam Scope**

### **Mathematics:**

#### **Paper 1 – 2,5 hours**

1. Exponents
2. Surds
3. Equations and inequalities, completing the square
4. Nature of roots
5. Number Patterns
6. Functions – straight line, parabola, hyperbola, exponential graphs
7. Finance
8. Probability – 3 circle Venn diagrams, tree diagrams, contingency tables, independent events

#### **Paper 2 – 2,5 hours**

1. Analytical geometry
2. Trigonometry – reduction formulae, equations, identities, trig on the Cartesian plane
3. Trig graphs
4. Circle Eudidean geometry
5. Statistics
6. Trigonometry – solving triangles using SOH CAH TOA, sin rule, cos rule and area rule
7. Measurement

### **Life Sciences**

#### **Paper 1 – 2,5 hours**

1. Supporting systems and movement in animals – human skeleton, joints, and muscles.
2. Transport in animals – the human circulatory system, heart structure, blood vessels, blood, and lymph as a tissue.
3. Excretion in humans and the urinary system.
4. The Human nervous system
  - The nervous systems
  - The brain, spinal cord, and reflex arc
  - Nerve tissue and transmission of nerve impulses
  - Receptors

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