



**TERM 1**  
**SYLLABUS DISTRIBUTION**  
**2017 - 2018**  
**GRADE 11**  
**Mathematics**

**Pure Mathematics**

Topics:

- Surds and Indices
- Linear Functions and Graphs
- Quadratic equations
- Inequalities, Domain and Range, Composite functions
- Sequences
- Trigonometry and Radian measure
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**Mechanics**

Topics:

- Horizontal Velocity and Acceleration
- Force and Motion
- Vertical motion (due to gravity)
- Resolving Forces (Vectors)
- Friction



**TERM 2**  
**SYLLABUS DISTRIBUTION**  
**2017 - 2018**  
**GRADE 11**  
**Mathematics**

**Pure Mathematics**

Topics:

- Differentiation
- Integration
- Vectors

**Mechanics**

Topics:

- Work, Energy and Power
- General Motion in a Straight Line



**GRADE 11 (AS )Biology**  
**SYLLABUS DISTRIBUTION**  
**2017-2018**

	<b>TERM 1</b>
Unit 1	Cell structure
Unit 2	Biological molecules
Unit 3	Enzymes
Unit 4	Cell membranes and transport
Unit 5	The mitotic cell cycle
Unit 6	Nucleic acids and protein synthesis
Unit 7	Transport in plants
Unit 8	Transport in mammals
	<b>TERM 2</b>
Unit 9	Gas exchange and smoking
Unit 10	Infectious disease
Unit 11	Immunity
	<b>TERM 3</b>
	REVISION



**GRADE 11 AS CHEMISTRY**  
**SYLLABUS DISTRIBUTION**  
**CHEMISTRY**  
**2017-2018**  
**TERM 1**

1. Atoms Molecules and Stiochiometry
2. Atomic structure
3. Chemical bonding
4. States of matter
5. Chemical Energetics (Enthalpy and Hess)
6. Electrochemistry (Redox reactions and electrolysis)
7. Equilibrium
8. Reaction Kinetics (Rates of reaction, Boltzman distribution)
9. Inorganic Chemistry
10. Groups II and VII
11. Nitrogen and sulfur

**TERM 2**

1. Introduction to organic chemistry (Structural, Displayed, Skeletal formula, Naming and Functional groups)
2. Characteristic organic reactions
3.  $\sigma$  and  $\pi$  bond shapes
4. Isomerism (Structural, cis-trans and optical)
5. Hydrocarbons
6. Halogenoalkanes and Halogenoarenes
7. Hydroxyl Compounds (Alcohols and Esters)
8. Carbonyl compounds (Aldehydes and Ketones)
9. Carboxylic Compounds and derivatives (Carboxylic acids, Acyl Chlorides and Esters)
10. Polymerisation (inc disposal of polymers)
11. Analytical techniques- Infra red spectroscopy

**TERM 3**

**Revision**



## **G11 IGCSE Physics 2017-18**

### **Syllabus Distribution**

#### **TERM 1**

1. Physical quantities and units
2. Measurement techniques
3. Kinematics
4. Dynamics
5. Forces, density and pressure
6. Work, energy and power
7. Deformation of solids
8. Electric fields
9. Current of electricity
10. D.C. circuits
11. Waves
12. Superposition

#### **TERM 2**

Particle and nuclear Physics

Revision

#### **TERM 3**

Revision

# **SYLLABUS DISTRIBUTION 2017 – 2018**



## **Grade 11 IT ( 9626)**

### **Term 1**

- **Section 1-Data, information, knowledge and processing**
- **Section 2-Hardware and software**
- **Section 3-Monitoring and control**
- **Section 4-E-safety and health and safety**
- **Section 5-The digital divide**
- **Section 8-Spreadsheets**
- **Section 9-Database and file concepts**

### **Term 2**

- **Section 6-Using networks**
- **Section 7-Expert System**
- **Section 10-Sound and video editing**

### **Term 3**

- **Drop-in classes**