

## Transition Year Programme

### Title of Module

Algebra/complex numbers/sequences & patterns

### Duration of Module

9 Weeks = 9 x 3 classes

### Aims

- To build on and develop the students already acquired knowledge up to J.C. level.
- To promote confidence and competency in the basic skills of Algebra.

### Objectives

On conclusion of this module the student should be able to:

- Recognize and deal confidently with algebraic expressions.
- Solve complex number expressions.
- Solve equations with fractions.
- Factorising & forming quadratic complex numbers expressions
- Solving quadratic equations by quadratic equation formula.

Forming the nth term  $T_n = a + (n-1)d$  - arithmetic sequence

Forming the nth term  $S_n$  formula – arithmetic series

### Teaching and Learning Strategies

- Interactive and negotiated learning.  
Discovering maths 3
- Formal input by teacher.

### Content

- Solving algebraic expressions
- Solving equations involving fractions
- Solving quadratic equations by factorising.

### Assessment

Homework and end of module test.

### Resources

Discovering maths 2, Whiteboard, O.H.P., calculators. Practical Mathematics - O.D. Morris. Photocopies.

**Evaluation**

Review by Mathematics Department

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