

Unit Title: Development of Ideas in Algebra
Level: Two
Credit Value: 3
GLH:
NOCN Unit Code: RB1/2/EM/017
QCA Unit Reference
Grading Descriptor Number(s): Not applicable

This unit has 4 learning outcomes.

LEARNING OUTCOMES	ASSESSMENT CRITERIA
The learner will:	The learner can:
1. Manipulate algebraic expressions in order to solve problems.	1.1. Change the subject of a formula where the subject appears in one term only. 1.2. Simplify expressions using the rules of indices. 1.3. Expand expressions involving brackets and factorise simple expressions. 1.4. Solve simple linear equations up to those including brackets, and where the unknown appears on both sides.
2. Use graphical methods to represent algebraic relationships.	2.1. Construct a table of values from linear algebraic equations. 2.2. Plot the graph of a linear function from a table of values. 2.3. Use the formula $y = mx + c$ to calculate the values of m and c from a graph or table of data. 2.4. Recognise and sketch graphs of $y = x^2$, $y = x^3$ and $y = a/x$.
3. Use graphical and non-graphical methods to solve algebraic problems.	3.1. Solve simultaneous equations containing two variables graphically. 3.2. Plot the graph of a quadratic function. 3.3. Solve quadratic equations of the form $x^2 + ax + b = 0$ using a graphical method. 3.4. Solve simple algebraic equations using a 'trial and improvement' method.
4. Perform an investigation, which leads to an understanding of sequences.	4.1. Recognise and continue a pattern of numbers to a specified term. 4.2. Recognise patterns of triangular numbers. 4.3. Find an algebraic expression for the n th term of a linear sequence.

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ASSESSMENT INFORMATION

Guidance:

This grid gives details of the assessment activities to be used with the unit attached. Please refer to the NOCN Handbook for definitions of each activity and the expectations for assessment practice and evidence for moderation.

The assessment activities for this unit are indicated in the table below:

Key: **P = Prescribed** – this assessment method *must* be used to assess the unit.
O = Optional – this assessment method *could* be used to assess the unit.

Case study		Project	
Written question & answer/test/exam		Role play/simulation	
Essay		Practical demonstration	
Report		Group discussion	
Oral question and answer		Performance/exhibition	
Written description		Production of artefact	
Reflective log / diary		Practice file	

Signposting Key Skills

This unit offers clear opportunities for learners to provide evidence of achievement in Key Skills achievement in the following skill area/s:

Key Skill		Wider Key Skill	
Communication		Working with others	
Information Technology		Problem solving	
Application of Number		Improving Own Learning and	



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Unit Title:
Level:
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NOCN Unit Code:
QCA Unit Reference Code:
Accredited Start date:
Accredited End date:
Unit Sector/Subject area:
Grading descriptors:
Availability for Use:

Purpose and Aim of the Unit	Free Text
Restrictions on the Availability	Free Text or N/A
Additional Assessment Requirements	Free Text or N/A
Details of relationship between the Unit and the NOS	Free Text or N/A
Details of relationship between the Unit and Standards (not NOS)	Free Text or N/A
Endorsement of the Unit by	Free Text or N/A