

Unit Title: Number and Algebra
Level: Two
Credit Value: 3
GLH:
NOCN Unit Code: RB1/2/EM/018
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. Demonstrate an understanding of mathematical language with respect to number.	1.1. Use the following terms appropriately: whole numbers, natural numbers, integers (both positive and negative values), digits, factors, prime numbers, fractions, decimals, reciprocals, percentages, indices, standard form. 1.2. Identify place value. 1.3. Convert percentages to decimals and fractions and vice versa. 1.4. Recognise square numbers up to 15×15 and the cubes of 2,3,4,5 and 10.
2. Undertake and solve mathematical problems.	2.1. Perform calculations using addition, subtraction, multiplication, division and simple applications of ratio using the types of number and terms stated in 1.1. 2.2. Perform calculations involving brackets and apply operators in the correct order. 2.3. Round numbers to a stated number of significant figures or decimal places. 2.4. Estimate the results of calculations. 2.5. Choose and use appropriate levels of accuracy to express an answer.
3. Demonstrate an understanding of the need for and use of symbolic notation, and use correctly.	3.1. Substitute numerical values into given formulae. 3.2. Perform addition, subtraction, multiplication and division using algebraic terms.

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LEARNING OUTCOMES	ASSESSMENT CRITERIA
The learner will:	The learner can:
4. Use a Cartesian graph to represent information.	4.1. Draw axes with appropriate scales. 4.2. Plot points using Cartesian co-ordinates. 4.3. Interpret and sketch graphs from practical situations (e.g. Hookes Law). 4.4. Extract information from graphs (e.g. conversion or distance/time graphs). 4.5. Extrapolate and interpolate graphical data and draw a line of best fit.

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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