Essential Skills Wales Mapping

BTEC Specialist qualifications

Edexcel BTEC Level 1 and Level 2 Awards in Mathematical Applications (QCF)

For first teaching September 2010

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Mapping to Level 1 Essential Skills Wales

Level 1	Unit number	
ESW Application of Number — learners can:	**1**	**2**
• Read, understand and extract information from tables, diagrams, charts and simple graphs	√	√
• Read and understand numbers represented in different ways, including large numbers in figures or words, simple fractions, decimals, percentages, ratios and negative numbers	√	√
• Collect and record data from accurate observations	√	
• Read scales on familiar measuring equipment using everyday units		√
• Use scales on diagrams to find and interpret measurements and make observations		√
• Identify and use methods and calculations that are suitable for your task	√	√
• Work to the levels of accuracy you have been given	√	√
• Add and subtract, with whole numbers and simple decimals with and without a calculator	√	
• Multiply and divide a simple decimal by a whole number with and without a calculator	√	
• Understand and find simple fractions and percentages	√	
• Recognise equivalencies between common fractions, percentages and decimals, and use these to find proportions of whole numbers	√	

Level 1	Unit number	
ESW Application of Number — learners can:	1	2
• Add, subtract, multiply, divide and record sum of money	√	
• Read measure and record time in common date and time formats	√	
• Choose and use appropriate units and instruments to estimate, read measure and compare length, weight, capacity, time and temperature		√
• Calculate within a system by 　1. adding and subtracting common units of measure 　2. converting units of measure in the system		√
• Work out different properties of a variety of shapes, including perimeters, areas and volumes		√
• Draw 2-D shapes in different orientations using grids		√
• Use ratio and proportion		√
• Use probability to show(using fractions, decimals and percentages) that some events are more likely to occur than others	√	
• Find the average (mean)… *(part)*	√	
• Find the range… *(part)*	√	
• Calculate efficiently using whole numbers, fractions, and decimals	√	
• Interpret the results of your calculations	√	√
• Show how your results relate to the problem or task	√	√

Level 1	Unit number	
ESW Application of Number — learners can:	1	2
• Using the correct units, use appropriate ways to present your findings, including a chart or graph, and a diagram	√	√
• Label your work correctly	√	√
• Describe what your results tell you and explain how they meet the purpose of your task	√	√

Mapping to Level 2 Essential Skills Wales

Level 2	Unit number	
ESW Applications of Number — learners can:	**1**	**2**
• Read, understand and extract information from tables, diagrams, charts and simple graphs	√	
• Read and understand numbers represented in different ways	√	√
• Collect and record data from making accurate observations	√	
• Read scales on a range of equipment to give levels of accuracy		√
• Use shape and space to record relevant measurements and make accurate observations		√
• Estimate amounts and proportions		√
• Understand compound measures		√
• Work with and convert between fractions, decimals and percentages	√	
• Calculate with sums of money and convert between currencies	√	
• Calculate, measure and record time in different formats		√
• Estimate, measure and compare length, weight and capacity and temperature using metric and, where appropriate, imperial units		√
• Calculate within a system and between systems using conversion tables and scales, and approximate conversion factors		√

Level 2	Unit number	
ESW Application of Number — learners can:	1	2
• Recognise and use common 2-D representations of 3-D objects		√
• Solve problems involving 2-D shapes and parallel lines		√
• Work out actual dimensions from scale drawings		√
• Use proportion and calculate using ratios where appropriate		√
• Identify the range of possible outcomes of combined events through probability and record the information using diagrams and tables	√	
• Compare sets of data of an appropriate size, using percentages, mean/median/mode	√	
• Use range to describe the spread within the sets of data	√	
• Understand and use given formulae		√
• Calculate efficiently using whole numbers, fractions, decimals and percentages	√	
• Understand what the results of your calculations mean in the context of your problem or task	√	√
• Construct tables, charts and graphs, and label with titles, scales, axes and keys appropriate to your purposes and audience	√	
• Use more than one way to present your findings, including numerical, graphical and written formats	√	
• Describe your methods, highlight the main points of your findings, and explain	√	

Level 2	Unit number	
how they meet your purpose		