## Scheme of Work - Functional Skills Level 1 (Construction)



## Course delivery information: Functional Skills Level 2 (Construction)

Duration: 36 weeks

## Aims:

Performance - Learners can:

- Understand practical problems in familiar and unfamiliar contexts and situations, some of which are non-routine
- Identify, obtain and utilise necessary information to tackle problems
- Select and apply mathematics in an organised way to find solutions to practical problems for different purposes
- Use appropriate checking procedures at each stage

Interpret results, consider the appropriateness of conclusions, and communicate solutions to practical problems, providing explanations

## Regular resources/textbooks:

Smartboard, WB & Pens, Power Point, paper & pens for group work, textbook, internet and LRC resources.



| Week/<br>Sessio<br>n | Content                                  | Learning Objectives:<br>students will be able to   | Assessment of Learning   | Teaching and Learning<br>Activities  | Resources   | Functional Skills Standards<br>(including ECM theme)   |
|----------------------|--|--|--|--|---|--|
| 1                    | Induction<br>Initial<br>assessment       | Tell the KS/BS/FS<br>requirements<br>Answer questions on the<br>Profiler assessment  | Q&A<br>Profiler Assessment   | <ul> <li>Introduce the<br/>Key/Basic/Functional Skills -<br/>discuss assessment and<br/>portfolio requirements etc.</li> <li>Paper or computer-based<br/>diagnostic assessments</li> </ul>   | Handouts<br>Whiteboard<br>Assessment<br>s<br>Computers                                      |  |
| 2                    | Initial<br>assessment<br>1:1<br>feedback | Complete the Profiler<br>assessment<br>Complete autumn term<br>progress sheets   | Profiler Assessment  | •Continue paper/computer-<br>based diagnostic<br>assessments   | Assessment<br>s<br><i>Computers</i>   |  |
| 3                    | Language of<br>Maths<br>Place value      | Read, write order and<br>compare large numbers<br>Discuss negative numbers in<br>practical contexts<br>Read temperatures on a<br>thermometer<br>Use negative numbers in a<br>practical context, e.g.<br>temperature below zero,<br>loss in trading | Observation of ordering<br>activity<br>Q&A<br>Peer checking: Correctly<br>read and record<br>temperature - feedback<br>to learners<br>Discussion on government<br>spending figures on public<br>services | <ul> <li>Activity - Order a set of<br/>monthly trading figures for<br/>a year, including losses.</li> <li>Worksheet - write the<br/>value of a digit in a number</li> <li>Cards activity - Order a set<br/>of +ve and -ve numbers<br/>(smartboard)</li> <li>Paired activity - Describe a<br/>set of numbers (more than,<br/>less than, equal to)<br/>(smartboard)</li> <li>Paired activity -<br/>measure and record body<br/>temperatures</li> </ul> | Matching<br>cards<br>Thermomet<br>ers<br>Worksheets<br><i>Computer</i><br><i>Smartboard</i> | Read, write, order and<br>compare positive and negative<br>numbers of any size.<br>Understand the meaning of<br>negative numbers in a<br>practical context, for example<br>temperature below zero, loss<br>in trading. |
| 4                    | Multiples,<br>factors and<br>prime       | Use mental and written<br>methods of calculation to<br>generate results when   | Successful completion of<br>problem solving<br>worksheet & mental  | Discuss different methods that<br>can be used for mental and<br>written calculations and share   | Activity<br>cards<br>Worksheets   | Understand multiple and factor, and relate them to multiplication and division   |





|   | numbers                 | solving problems using whole<br>numbers of any size<br>Complete calculations using<br>the words <i>multiple</i> , prime<br>number and <i>factor</i> and<br>relate them to multiplication<br>and division facts  | maths game<br>Observation of activity  | short cuts and 'tricks', with<br>explanations, factors.<br>Use a number square and<br>cross off multiples of numbers<br>in turn to find prime numbers.<br>Practise breaking down<br>numbers into prime factors.  | Follow on<br>game cards<br>Dominoes<br><i>Smartboard</i><br><i>Computer</i><br><i>Number</i><br><i>square</i> | facts.<br>Understand primes and know<br>prime numbers up to 20.<br>Give the level of accuracy of<br>results  |
|---|-------------------------|---|--|--|---|--|
| 5 | Ratio and<br>Proportion | Solve problems involving the<br>number of parts in a given<br>ratio, and the value of one<br>part   | Checking/Marking of<br>progress/completion of<br>problem solving<br>worksheet<br>Peer checking: Scale<br>quantities up (or down),<br>using direct proportion,<br>e.g. recipes, cement<br>mixes, etc<br>Observation of<br>calculating actual<br>measurements from a<br>scale drawing. | <ul> <li>Discussion - ratio in<br/>everyday situation<br/>(smartboard)</li> <li>Worksheets - problem<br/>solving</li> <li>Group activity - actual<br/>measurement from a scale<br/>drawing</li> </ul>  | Activity<br>cards<br>Worksheets<br>Scale<br>drawing<br><i>Smartboard</i><br><i>Computer</i>                   | Understand ratio written in<br>the form 3:2, sharing £60 in<br>the ratio 3:2.<br>Understand how to work out<br>the number of parts in a given<br>ratio, and the value of 1 part.   |
| 6 | Simple<br>Algebra       | Make distinction that words<br>and symbols in expressions<br>and formulae rule represent<br>variable quantities<br>(numbers), not things<br>Evaluate expressions and<br>make substitutions in given<br>formulae in words and<br>symbols to produce results. | Observation of<br>Smartboard activity -<br>Matching expressions<br>Peer checking -<br>Worksheet on how to<br>calculate area and volume<br>from a given formula   | <ul> <li>Discussion - examples of practical applications of algebra.</li> <li>Board work - match expressions in words and symbols.</li> <li>Convert expressions from words to symbols, and vice versa. (smartboard).</li> <li>Worksheets - Evaluate</li> </ul> | Whiteboard<br>Worksheets<br>Calculators<br>Smartboard<br>Computer   | Understand that words and<br>symbols in expressions and<br>formulae represent variable<br>quantities (numbers) <b>not</b><br>things, so 2a + 2b cannot be<br>explained as 2 apples and 2<br>bananas.<br>Understand that the contents<br>of brackets must be worked<br>out first. |



|   |   |   |  | simple formulae using<br>brackets, e.g. perimeter = 2<br>(l + w).<br>• Paired activity - changing<br>temperature from<br>Fahrenheit to Celsius,<br>changing between metric<br>and imperial units.                  |              |   |
|---|---|---|--|--|--------------|---|
| 7 | Recap of<br>first half<br>term topics<br>and<br>completion<br>of mini<br>project. | Complete mini project.<br>Q & A session | Direct questioning<br>Mark the assignment and<br>give feedback | <ul> <li>Learners to complete mini<br/>project (work out profit &amp;<br/>loss in a business) and<br/>answer oral questions (e.g.<br/>House hold or small<br/>business budgeting)</li> <li>Set homework</li> </ul> | Mini project | Use efficient methods to carry<br>out calculations involving two<br>or more steps, including<br>efficient use of a calculator.<br>Understand that when there is<br>no operator between a<br>number and a variable, two<br>variables, or a bracket,<br>multiplication is implied.<br>Make substitutions in given<br>formulae in words and<br>symbols.<br><u>ECM5</u> |

HALF TERM





| Week/<br>Sessio<br>n | Content  | Learning Objectives:<br>students will be able to  | Assessment of Learning                                     | Teaching and Learning<br>Activities  | Resources  | Functional Skills Standards<br>(including ECM theme)   |
|----------------------|--|---|--|--|--|--|
| 8                    | Evaluation<br>of a number<br>as fraction<br>of another | Identify and recognise<br>equivalent fractions<br>Know how to reduce a<br>fraction to its simplest form | Checking/marking of<br>progress/completion of<br>worksheet | <ul> <li>Starter activity -<br/>equivalent fractions</li> <li>Board work - Represent the<br/>outcome of observations as<br/>a fraction</li> <li>Discuss - strategies for<br/>estimating one number as a<br/>fraction of another,</li> <li>Worksheet - Evaluate<br/>quantities as fractions,</li> </ul>   | Whiteboard<br>Smartboard<br>Computer<br>worksheet  | Know how to change fractions<br>to equivalent fractions with a<br>common denominator.<br>Identify equivalences between<br>fractions, decimals and<br>percentages.<br>Understand that quantities<br>must be in the same units to<br>evaluate and compare. |
| 9                    | Equivalent<br>fractions                                | Match equivalent fractions  | Observation of matching<br>cards game                      | <ul> <li>Discussion - examples of<br/>fractions and its<br/>equivalencies in everyday<br/>life (use leaflets, adverts<br/>and headlines). Understand<br/>that fractions add up to one<br/>whole</li> <li>Activity - Write fractions of<br/>an hour as decimals on a<br/>time sheet (smartboard)</li> <li>Card activity - matching<br/>equivalent fractions,<br/>decimal and percentages</li> </ul> | Leaflets<br>Whiteboard<br>Matching<br>cards<br>Worksheets<br>Drag and<br>drop<br>exercise. | Know how to change fractions<br>to equivalent fractions with a<br>common denominator<br>Evaluate one number as a<br>fraction or percentage of<br>another.  |



| 10 | Decimals   | Write down the value of<br>figures in numbers of up to<br>three decimal places<br>Add, subtract, multiply and<br>divide decimals up to three<br>places | Successful completion of<br>task<br>Checking/marking of<br>progress/completion of<br>worksheet | <ul> <li>Discussion - rounding<br/>answers on a calculator and<br/>the degree of accuracy that<br/>might be appropriate, e.g.<br/>calculations with money,<br/>precise measurements)</li> <li>Activity - Compare times<br/>from sprint races that are<br/>recorded in seconds to<br/>three decimal places.)</li> <li>Search for goods on<br/>European online shopping<br/>sites and convert the prices<br/>from € to £ sterling</li> </ul> | Whiteboard<br>Ordering<br>cards<br><i>Smartboard</i><br><i>computers</i>  | Add, subtract, multiply and<br>divide decimals up to three<br>places and check answers in<br>the context of measurements<br>and money  |
|----|--|--|--|--|---|--|
| 11 | Percentage<br>of<br>quantities                                     | Order and compare<br>percentages and<br>demonstrate understanding<br>of percentage increase and<br>decrease.<br>Calculate VAT of given<br>amounts.     | checking/marking the<br>progress/completed ]task<br>Peer-checking                              | <ul> <li>Discuss quick ways of<br/>finding VAT</li> <li>Use interest rates to<br/>compare the cost of a loan<br/>with credit facilities.</li> <li>Paired Activity - Practise<br/>examples in context, e.g.<br/>percentage increase or<br/>decrease of plumbing<br/>materials Add VAT to a<br/>completed repair. Use any<br/>methods.</li> </ul>  | Worksheets<br>Interest<br>rates from<br>banks.<br>Internet                | Use fractions, decimals and<br>percentages to order and<br>compare amounts or<br>quantities and to solve<br>practical problems. Choose to<br>use a fraction, decimal or<br>percentage to work out VAT. |
| 12 | Evaluation<br>of one<br>number as<br>a<br>percentage<br>of another | Calculate one number as<br>percentage of another.<br>Know and use strategies to<br>check answers obtained with<br>a calculator                         | Direct questioning<br>Peer checking - feedback<br>to learners                                  | <ul> <li>Discussion - percentages<br/>using the attributes of the<br/>group, e.g. what percentage<br/>of the group is male,</li> <li>Activity - match<br/>calculations to answers</li> </ul>   | Whiteboard<br>Matching<br>cards<br>Smartboard<br>Computers<br>Calculators | Evaluate one number as a<br>fraction or percentage of<br>another.<br>Understand that quantities<br>must be in the same units to  |





|    |  |   |   | Smartboard / skillswise)<br>• Activity - Use a calculator<br>to check the answers to<br>calculations done by other<br>methods (manual or by<br>another person).   |   | evaluate and compare.   |
|----|--|---|---|---|---|---|
| 13 | Equivalent<br>fractions,<br>decimals<br>and<br>percentages                       | Complete a table of<br>equivalent fractions,<br>decimals and percentages<br>including in real life context. | Observation of activity.<br>Q&A                                   | <ul> <li>Boardwork - show learners<br/>how to convert between<br/>fractions, decimals and<br/>percentages.</li> <li>Paired activity - complete<br/>a table of equivalencies</li> <li>Matching game (<i>Skillswise</i>)</li> </ul> | Whiteboard<br>Matching<br>cards<br>Worksheets<br><i>Computers</i> | Understand that fractions,<br>decimals and percentages are<br>different ways of expressing<br>the same thing.<br>Use fractions, decimals and<br>percentages to order and<br>compare amounts or<br>quantities and to solve<br>practical problems |
| 14 | Completion<br>of project<br>involving<br>Fraction,<br>decimal and<br>percentages | Complete problem solving<br>paper / mini project<br>covering work completed<br>during second half term      | Formative assessment of<br>student's work<br>Directed questioning | <ul> <li>Learners to complete mini<br/>project (e.g. finding the<br/>most competitive prices to<br/>re-decorate a spare room<br/>into an office)</li> <li>Set homework according to<br/>test results</li> </ul>                   | Mini project  | Carry out calculations with<br>numbers of any size in<br>practical contexts<br>Understand and use<br>equivalencies between<br>fractions, decimals and<br>percentages<br><u>ECM5</u>   |

|       | XMAS BREAK |                      |                        |                       |           |                             |  |
|-------|------------|----------------------|------------------------|-----------------------|-----------|-----------------------------|--|
| Week/ | Content    | Learning Objectives: | Assessment of Learning | Teaching and Learning | Resources | Functional Skills Standards |  |



| Sessio |   | students will be able to   |   | Activities   |  | (including ECM theme)  |
|--------|---|--|---|--|--|--|
| n      |   |  |   |  |  |  |
| 15     | Recap of<br>Fractions,<br>decimals<br>and<br>percentages<br>Feedback of<br>first term's<br>topics | Apply fraction, decimal and<br>percentage in problem<br>solving situations<br>Review autumn term<br>progress sheet and complete<br>targets for spring term                           | Checking/marking of<br>worksheet<br>Directed questioning  | <ul> <li>Worksheets - Problem<br/>solving with fractions,<br/>decimals and percentages.</li> <li>Feedback with tutor -<br/>evaluate students progress<br/>with regard to their learning<br/>and their personal<br/>development</li> </ul>  | Worksheets<br>Calculator<br>Progress<br>Record<br>Form   | Add and subtract using halves,<br>thirds, quarters, fifths and<br>tenths.<br>Add, subtract, multiply and<br>divide decimals up to three<br>places and check answers                                |
| 16     | Metric &<br>Imperial<br>measureme<br>nt   | Categorise metric and<br>imperial units of length,<br>distance, weight, capacity<br>Read scales to different<br>levels of accuracy, including<br>reading between marked<br>divisions | Observation of activity<br>Observation of measuring<br>tasks to varying degree of<br>accuracy with the<br>appropriate instrument. | <ul> <li>Discuss the appropriate<br/>units of measure for length,<br/>distance, weight, capacity,<br/>and the use of metric and<br/>imperial units</li> <li>Activity - estimate,<br/>measure and record length<br/>and weights and capacities<br/>of items</li> <li>Paired activity - read both<br/>metric and imperial<br/>amounts for lengths weights<br/>and capacities.</li> </ul> | Whiteboard<br>Quiz<br>questions<br>Worksheets<br>Measuring<br>tape<br>Bathroom<br>and kitchen<br>scales<br>Flip charts<br>Smartboard | Calculate, measure and record<br>dates and times in different<br>formats and know the<br>relationship between units of<br>time, for example second,<br>minute, hour, day, week,<br>month and year. |



| 17 | Conversion<br>of metric<br>and<br>imperial<br>units | Calculate with units of<br>measure within the same<br>system<br>Use a measuring instrument<br>accurately<br>Convert metric units to<br>imperial units and vice versa | Observation of activity.<br>Q&A.<br>Observation of measuring<br>activity<br>Checking/marking the<br>progress/completed<br>worksheet | <ul> <li>Discussion - metric and<br/>imperial units Work out the<br/>best value of products of<br/>different weights or<br/>capacities.</li> <li>Board work - How to<br/>convert between different<br/>units (review x &amp; ÷ by 10,<br/>100 and 1000)</li> <li>Worksheets -<br/>Converting between<br/>different units</li> <li>Activity -match metric<br/>and imperial amounts with<br/>different units (smartboard)</li> </ul>      | Whiteboard<br>Worksheets<br>Liquids and<br>containers<br><i>Smartboard</i>              | Calculate with units of<br>measure between systems,<br>using conversion tables and<br>scales, and know how to use<br>approximate conversion<br>factors<br>Estimate, measure and<br>compare length, distance,<br>weight, capacity and<br>temperature, including<br>reading Celsius and Fahrenheit<br>scales and conversion tables. |
|----|---|--|---|---|---|---|
| 18 | Area and<br>perimeter<br>of<br>composite<br>shapes  | Use given formulae to find<br>areas of composite shapes<br>(e.g. non-rectangular rooms<br>or plots of land)<br>Break down a composite<br>shape into regular shapes   | Observation of activity.<br>Q&A.<br>Checking/marking the<br>progress/completed<br>worksheet   | <ul> <li>Discussion - finding the perimeter of composite shapes, such as rooms, which are not drawn to scale and do not have all the measurements included, and devise ways of finding the lengths of all the edges</li> <li>Activity - Calculate the wall area for painting, excluding doors and windows. Use plans drawn on plain paper to find the areas of composite shapes. Calculate any missing dimensions, and use a</li> </ul> | Whiteboard<br>Worksheets<br>Matching<br>cards<br>Measuring<br>instruments<br>Smartboard | Know what is meant by<br>perimeter, circumference,<br>diameter and radius.<br>Understand and use given<br>formulae for finding<br>perimeters and areas of<br>common and composite<br>shapes, circumference and<br>area of circular surfaces   |





|    |   |  |  | formula to find the area of each component  |   |   |
|----|---|--|--|---|---|---|
| 19 | Scale<br>Drawing                          | Draw an accurate scale plan<br>of a room using a scale<br>expressed as a ratio<br>Accurately work out<br>distances from the scale on a<br>map. | Observation of activity<br>Successful completion of<br>task. Q&A | <ul> <li>Discuss scales and how<br/>they are used. Work from<br/>several examples such as <i>If</i><br/><i>the scale is 1:100 on a plan,</i><br/><i>what would a centimetre</i><br/><i>represent? What would 10</i><br/><i>cm represent?</i></li> <li>Activity - Produce<br/>simple plans and scale<br/>drawings, with different<br/>scales, and work out actual<br/>measurements, e.g. house<br/>plans, room plans,<br/>templates for making<br/>something, etc. Use<br/>different scales, e.g. 1:20,<br/>1:10, and 1:50.</li> </ul> | Tracing<br>paper<br>Whiteboard<br>Internet<br><i>Smartborad</i> | Work out dimensions from<br>scale drawings.<br>Estimate amounts using<br>proportions, for example the<br>length of the room is about<br>three times its width, the<br>stockroom is about two-thirds<br>full.                              |
| 20 | Measureme<br>nts and<br>scale<br>drawings | Measure a room and present<br>the dimensions in form of<br>scale drawing.<br>Calculate the area and<br>perimeter of the room.                  | Observation of set task.<br>Check marked work.                   | <ul> <li>Learners to the mini<br/>project on scale drawing<br/>using appropriate scale.</li> <li>Set homework</li> </ul>  | Measuring<br>tape<br>Rulers<br>Whiteboard                       | Know that measurements<br>must be in the same units<br>when calculating perimeters,<br>areas or volumes.<br>Understand the symbol for pi<br>and know its approximate<br>value<br>Understand and use given<br>formulae for finding volumes |



|  |  |  | of common shapes |
|--|--|--|------------------|
|  |  |  |                  |
|  |  |  |                  |
|  |  |  |                  |

| Week/<br>Sessio<br>n | Content             | Learning Objectives:<br>students will be able to  | Assessment of Learning  | Teaching and Learning<br>Activities  | Resources  | Functional Skills Standards<br>(including ECM theme)   |
|----------------------|---------------------|---|---|--|--|--|
| 21                   | 2D and 3D<br>shapes | Use common 2D<br>representations of 3-D<br>objects<br>Solve problems involving 2-D<br>shapes and parallel lines | Feedback to learner<br>Observation of activity<br>Checking/marking the<br>progress/completed<br>worksheet | <ul> <li>Investigate and describe<br/>different representations<br/>of 3-D objects in 2-D, e.g.<br/>nets of solids, plans,<br/>elevations.</li> <li>Discuss practical examples<br/>of using parallel lines, e.g.<br/>hanging wallpaper, laying<br/>tiles or paving stones.</li> <li>Activity - Use the<br/>properties of parallel lines<br/>to solve everyday<br/>problems, e.g. finding the<br/>amount of coving needed<br/>to go round a ceiling by<br/>using the corresponding<br/>floor measurements.</li> </ul> | 2-D and 3-<br>D objects<br>Drawing<br>papers<br>Internet<br>Whiteboard | Recognise and use common 2D<br>representations of 3D objects,<br>for example in maps and<br>plans.<br>Solve problems involving 2D<br>shapes and parallel lines, for<br>example laying carpet tiles |





| 22 | Extracting<br>Data                          | Extract and interpret<br>information from lists,<br>tables, charts and graphs   | Observation of activity.<br>Q&A  | • | Discuss the difference<br>between continuous and<br>discrete data. A useful<br>example is that the size of<br>shoe someone wears is<br>discrete, but the length of<br>their foot is continuous.<br>Board work - Look at the<br>use of different scales and<br>their effect on the graph.<br>Comment on trends from<br>the slope of the graph.<br>Activity - <u>Online game</u> ,<br>Extract information from<br>tables in catalogues, | Whiteboard<br>Holiday<br>brochure<br>Graph<br>paper<br><i>Smartboard</i><br><i>Internet</i> | Know how to extract discrete<br>and continuous data from<br>tables, spreadsheets, bar<br>charts, pie charts and line<br>graphs with more than one<br>line.                  |
|----|---|---|--|---|---|---|---|
| 23 | Organising<br>and<br>representin<br>g data. | Measure the height of<br>everyone in the class and<br>present information as a<br>chart / graph.<br>Collect and record data from<br>exchange rates or a<br>particular share issue over a<br>period of time. Display the<br>data on a chart or graph | Check correct information<br>included on chart<br>Observation of activity<br>and correct completion of<br>chart or graph | • | Discussion - Use given sets<br>of data and discuss the<br>most suitable form of<br>representation.<br>Activity - Measure and<br>record classmates' height;<br>present the data in a<br>suitable form.<br>Worksheets - Plot a graph<br>showing exchange rates<br>over a period.  | <i>Whiteboard<br/>Internet<br/>Tape rule</i>  | Draw conclusions from scatter<br>diagrams, understanding that<br>correlation does not imply<br>causality.<br>Understand how to use scales<br>in diagrams, charts and graphs |





| 24 | Present<br>findings in a<br>suitable<br>way | Present outcome of<br>investigation using a pie<br>chart and bar chart.   | Check correct information<br>included on chart<br>Observation of activity<br>Correct completion of<br>chart | <ul> <li>Activity - investigate the menu offered in the canteen on Tuesday and find out the most and least popular.</li> <li>Present findings using pie chart.</li> </ul>   | Canteen<br>Menu<br>Graph<br>paper  | Know how to extract discrete<br>and continuous data from<br>tables, spreadsheets, bar<br>charts, pie charts and line<br>graphs with more than one<br>line.  |
|----|---|---|---|---|--|---|
| 25 | Collecting<br>and<br>presenting<br>data     | Carry out an investigation<br>and present the outcome in<br>a suitable form   | Check result of<br>investigation.<br>Directed questioning   | Activity - collecting and<br>presenting data - e.g.<br>Investigate the most popular<br>music genre in the college to<br>prepare for the end of year<br>performance.   | Graph<br>papers<br>Whiteboard<br>Computers<br>- Excel to<br>produce<br>charts and<br>graphs          | Know how to choose a suitable<br>format and scale to fit the<br>data and ensure all charts,<br>graphs and diagrams are<br>labelled.<br><u>ECM3</u>  |
| 26 | Averages & range                            | Calculate mean, median and<br>mode.<br>Discuss the distinctions that<br>each average is useful for<br>different purposes.<br>Find the range and use it to<br>describe the spread within<br>sets of data | Observation of activity<br>Listen to discussion points<br>Peer checking - feedback<br>to learners           | <ul> <li>Discuss the use of mean, median and mode.</li> <li>Discussion - the use of range in everyday language, e.g. price range, age range</li> <li>Q&amp;A - extracting information from different sources</li> </ul> | Whiteboard<br>Worksheets<br>Charts,<br>tables and<br>graphs<br>Quiz<br>questions<br>Squared<br>paper | Find the mean, median and<br>mode and understand that<br>each average is useful for<br>different purposes.<br>Use the range to describe the<br>spread within a set of data,<br>for example sales results.<br>Use the average and range to |
|    |   |   |   | <ul> <li>Activity - Compare the distribution of pay scales in two organisations.</li> <li>Paired Activity - Collect data of interest and compare the range, e.g. local house prices in</li> </ul>                       |  | compare two sets of data  |





|    |   |   |                                  | different area   |  |  |
|----|---|---|----------------------------------|--|--|--|
| 27 | Recap of<br>data<br>handling<br>Feedback<br>to students | Complete the revision<br>questions on last term's<br>topics<br>Review spring term progress<br>sheet and complete targets<br>for summer term | Checking/marking of<br>worksheet | <ul> <li>Worksheets - Problem<br/>solving with data handling</li> <li>Feedback with tutor -<br/>evaluate students progress<br/>with regard to their<br/>learning and their personal<br/>development</li> </ul> | Worksheets<br>Calculator<br>Progress<br>Record<br>Form | Collect and represent discrete<br>and continuous data, using ICT<br>where appropriate<br><u>ECM3</u> |

EASTER BREAK





| Week/<br>Sessio<br>n | Content          | Learning Objectives:<br>students will be able to  | Assessment of Learning                                  | Teaching and Learning<br>Activities  | Resources  | Functional Skills Standards<br>(including ECM theme)  |
|----------------------|------------------|---|---|--|--|---|
| 28                   | Probability      | Accurately record the range<br>of possible outcomes of<br>combined events in tree<br>diagrams or in tables. | Checking/marking the<br>progress/completed<br>worksheet | <ul> <li>Discuss the possible<br/>outcomes of an event<br/>using simple examples<br/>such as tossing a coin,<br/>picking a single playing<br/>card from a pack,<br/>throwing a die, the<br/>possible gender of a baby,<br/>the outcome of a football<br/>match for one team</li> <li>Activity - Identify the<br/>possible outcomes of the<br/>gender of twins</li> </ul> | Smartboard<br>Quiz<br>questions<br>Worksheets<br>Square<br>Paper<br>Smartboard | Understand that probability is<br>an expression of likelihood<br>and can be written as a<br>fraction, decimal or<br>percentage.<br>Identify the range of possible<br>outcomes of combined events<br>and record the information in<br>tree diagrams or tables. |
| 29                   | Practice<br>test | Complete practice FS<br>assessments   | Check answers on practice test.                         | Completing the questions and activities on FS assessment   | Assignments<br>Calculators<br>Protractors<br>Pen / Paper<br>Graph<br>paper     | Use and interpret discrete and<br>continuous data, using ICT<br>where appropriate, statistical<br>measures, tables and diagrams<br>Use statistical methods to<br>investigate situations<br><u>ECM 3</u>   |
| 30                   | Feedback         | Feedback on practice paper<br>both as a class and<br>individuals  | Q & A   | Discussion<br>Direct questioning   | Assignments<br>Calculators<br>Protractors<br>Pen / Paper<br>Graph<br>paper     |   |



| 31 | Summative<br>assessment  | Start functional skills<br>assessments   | Mark work completed   | Completing the questions and activities on FS assessment   | Assignments<br>Calculators<br>Protractors<br>Pen / Paper<br>Graph<br>paper |                      |
|----|--|--|---|--|--|----------------------|
| 32 | Summative<br>assessment  | Continue / complete<br>functional skills assessment  | Mark work completed   | Completing the questions and activities on FS assessment   | Assignments<br>Calculators<br>Protractors<br>Pen / Paper<br>Graph<br>paper | <u>ECM 3</u>         |
| 33 | Summative<br>assessment  | Continue / complete<br>functional skills assignment  | Mark work completed   | Completing the questions and activities on FS assessment   | Assignments<br>Calculators<br>Protractors<br>Pen / Paper<br>Graph<br>paper | <u>ECM 3</u>         |
| 33 | Introduce<br>Project 1-<br>Planning a<br>Holiday                     | Discus the appropriate<br>research method and<br>resources required to<br>complete the task. | Work as a group to<br>determine the things that<br>should be considered<br>when going on holiday. | Gather as much information as<br>possible from internet,<br>brochures and flyers   | project<br>Calculators<br>Protractors<br>Pen<br>Ruler<br>Graph<br>Paper    | <u>ECM 3 &amp; 5</u> |
| 34 | Presentatio<br>n of<br>Research<br>findings and<br>group<br>feedback | Present findings of their<br>research using appropriate<br>charts and diagrams               | Q&A.<br>Observation of task   | <ul> <li>Present their research<br/>findings to the whole class</li> <li>Explain the rationale<br/>behind their choice of<br/>holiday destination</li> <li>Discuss issues encountered<br/>and receive feedback from</li> </ul> | Project<br>Feedback<br>sheets<br><i>Computers</i>                          | ECM 3 & 5            |





|    |  |  |                                       | peers   |   |                      |
|----|--|--|---------------------------------------|---|---|----------------------|
| 35 | Introduce<br>Project 2-<br>Financial<br>managemen<br>t | Present personal monthly<br>budget plan to the group | Observation of<br>presentation<br>Q&A | <ul> <li>Discuss ways of managing spending</li> <li>Calculate monthly budget</li> <li>Present their research findings to the whole class</li> <li>Explain the rationale behind their spending</li> <li>Discuss problem encountered and receive feedback from peers</li> </ul> | Project<br>Feedback<br>sheets<br><i>Computers</i> | <u>ECM 3 &amp; 5</u> |
| 36 | Whole Class<br>Evaluation<br>and Review<br>Progress    | Review individual student's progress sheets          | Q&A                                   | <ul> <li>Whole class evaluation of tasks</li> <li>Discuss progression opportunities for the next academic year</li> </ul>   | Progress<br>sheets<br>Questionnai<br>re           | ECM 3 & 5            |