

TITLE: FUNCTION SKILLS – SHIFTING THE PARADIGM

SUBTITLE: Exemplar Lesson Plan: Maths

DATE: OCTOBER 2024

Introduction

This exemplar lesson plan should be used alongside the Bootcamp Order of Work for Maths Functional Skills Level 2 and is an example of how the lesson and timings could be structured. All resources used are free and are available using the links provided in the Bootcamp Order of Work document.

Session: One of ten	Date and time:	Duration: 120 minutes
Tutor name:		
Additional needs of learners	(Include relevant information here)	
Aims of the session	1: Explain to learners the structure of the functional skills 2: Introduce learners to both calculator and non-calculator questions 3: Cover Averages (mean, median, mode) and range 4: Frequency tables 5: Handling data and comparing data sets 6: Estimating the mean	

Overall Time	Time	Content	Activity	Resources	Extension	Assessment
10	10	Independent Study topics	Explain to learners the importance of the independent study topics to be completed in their own time	BKSB and links to BBC BiteSize and Pass Functional skills websites	N/A	Assessed throughout the lesson

15	5	The structure of the test	Explain the structure, format and pass marks for the tests	Show a past paper	N/A	Information not to be assessed at this point
40	25	Averages: mean, median and mode	Explain the different types of averages, starting off with simple numbers for non-calculator practice and then more complex numbers for calculator practice	Use examples from the Pass Functional Skills website and/or BKSB or use originally created examples or past paper questions	Using more complex numbers in the examples, decimals etc	Assessed through completion of examples and questions
45	5	Range	Explain concept of a range of numbers keeping all examples non calculator	Use examples from the Pass Functional Skills website and/or BKSB or use originally created examples or past paper questions	More complex questions could involve use of calculator or use two data sets to compare ranges	Assessed through completion of examples and questions
50	5	Short break				

65	15	Frequency and grouped frequency tables	Explain how frequency table can be used to record data and where grouped frequency tables are used for larger data sets. Questions here will be calculator ones.	Use examples from the Pass Functional Skills website and/or BKSb or use originally created examples or past paper questions	The complexity here can be in creating a grouped frequency table from a set of data for higher level learners	Assessed through completion of examples and questions
85	20	Estimating the mean	Show how a grouped frequency table can be used to estimate the mean and explain why the final value will be an estimation due to the grouped frequencies. Questions here will be calculator ones	Use examples from the Pass Functional Skills website and/or BKSb or use originally created examples or past paper questions	Learners typically find this the most challenging but more complex examples can be given to faster working learners	Assessed through completion of examples and questions

105	20	Comparing data sets	Explain how to compare data sets using the techniques covered in this session and how to decide which is the most appropriate one to use in different situations	Use examples from the Pass Functional Skills website and/or BKSB or use originally created examples or past paper questions	Use of more than one type of data analysis.	Assessed through completion of examples and questions and revises all the techniques covered in the session
120	15	Quick Fire Round Revision	Use a mixture of calculator and non-calculator questions to test knowledge and understanding. And a reminder of the independent study topics which may have been identified as weaknesses in individuals	Use examples from the Pass Functional Skills website and/or BKSB or use originally created examples or past paper questions	Set some homework questions to be reviewed at the start of Session Two.	Final revision of the topics covered today

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