Measures: Maths : Year 6 : Spring Term

PlanBee

	Learning Objective	Overview	Assessment Questions	Resources
Lesson 1	To know how to convert between different units of measurement	Children will identify the abbreviations and symbols for different types of measurement, before recapping on the relationships between the different units of measurement for money, mass, capacity, time and length. In their independent activities, children will use this knowledge to convert different units of measurement to smaller and larger units. Alternatively, they can practise these skills by playing the Convert Me To... Game in pairs.	• Do children know the relationships between different units of measurement for length, mass and capacity? • Can they use these known relationships to convert between different units of measurement? • Can children compare measures given in different units?	• Slides • Conversion Charts • Place Value Chart • Conversion Cards A/B/C • Convert Me To... Game (FSD? activity only) • Score Sheet (FSD? activity only) • Counters, dice
Lesson 2	To solve problems involving the conversion of different units of measurement	The lesson will begin with a brief recap on the different conversion relationships. The children will then apply this knowledge to solve a variety of multi-step problems. They will need to decide what methods to use, and at what step in the calculation they need to convert their answers into different units of measurement.	• Can children apply their knowledge of the relationships between different units of measurement to solve problems? • Can children make sensible decisions about which numbers to convert and when within a calculation? • Can children justify their choice of calculation and method?	• Slides • Conversion Chart • Monster Mansion Information Sheet • Worksheet 2A/2B • Measures Match Up! Q & A Sheets A/B (FSD? activity only) • Measures Match Up! Instruction Cards (FSD? activity only)
Lesson 3	To know how to convert miles to kilometres and vice versa	Children will find out about the difference between two units of measurement for distance – the mile and the kilometre. They will learn how to convert between miles and kilometres, and vice versa, using a given rule. Children will practise these conversions by either working out distances for a Monster Marathon, or playing a game involving conversion called Are We Nearly There Yet?	• Do children understand the difference between miles and kilometres? • Can children convert miles to kilometres using a given rule? • Can children convert kilometres to miles using a given rule?	• Slides • Conversion Cards • Fraction to Decimal Conversion Charts • Monster Marathon Worksheet 3A/3B/3C • Are We Nearly There Yet? Game Sheet A/B (FSD? activity only) • Journey Cards Set A/B (FSD? activity only) • Instruction Cards (FSD? activity only)
Lesson 4	To know how to calculate and compare the volume of cubes and cuboids	Children will recap on what volume is, and how to calculate the volume of a cuboid. They will then find out how to calculate missing dimensions using a given volume. In their independent activities, children will apply this knowledge to calculate various different volumes and/or dimensions of cubes and cuboids. Alternatively, children will be challenged to find out which box will have the largest volume based on given measurements.	• Can children estimate the volume of cubes and cuboids? • Do children understand how to calculate the volume of cubes and cuboids? • Can children compare the volume of cubes and cuboids?	• Slides • Worksheets 4A/4B/4C • Cuboid Challenge Card A/B (FSD? activity only)
Lesson 5	To know how to calculate the average speed, distance and time of a journey	In this lesson, children will find out what speed is. They will begin to understand the relationship between average speed, distance and time, and learn how to use formulas to calculate each measurement. Children will apply this knowledge to finding missing information in a table of results for a cycle race, or in the FSD activity, they will solve and check a variety of real-life word problems.	• Do children understand how to calculate average speed when given the time and distance measurements? • Do children understand how to calculate time when given the average speed and distance measurements? • Do children understand how to calculate distance when given the time and average speed measurements?	• Slides • Worksheet 5A/5B/5C • Formula Cards • Solve & Check Cards A/B (FSD? activity only)

NB: 'FSD? Activity only' refers to the alternative 'Fancy Something Different…?' activity within the lesson plan **www.planbee.com**