



Year 7 : Support Scheme of Work for pupils working at Levels 2 and 3
 Number and measures 3 (8 hours)

Lesson	Learning Objective	Learning Outcomes			Lesson strategies, activities and ideas	Resources
		Must	Should	Could		
1	Multiply whole numbers by 10, 100 and 1000 Divide whole numbers by 10, 100 and 1000 (whole number solutions only) Solve word problems.	Multiply whole numbers by 10 Divide whole numbers by 10, (whole number solutions only) Solve word problems.	Multiply whole numbers by 10 and 100 Divide whole numbers by 10 and 100 (whole number solutions only) Solve word problems.	Multiply whole numbers by 10, 100 and 1000 Divide whole numbers by 10, 100 and 1000 (whole number solutions only) Solve word problems.	Starter: Recall multiplication facts up to 10 x 10 Ensure pupils move figures NOT the decimal point.	S/board p. 72
2	Round positive whole numbers to nearest 10 or 100 and decimals to the nearest whole number.	Round positive whole numbers to nearest 10	Round positive whole numbers to nearest 10 or 100	Round positive whole numbers to nearest 10 or 100	Use a number line to illustrate rounding.	S/board p. 344, 345, 347, 348
3	Convert pounds to pence and vice-versa. Use the calculator effectively in the context of money.	Know how to write 2 pounds 45 pence in figures and to know that £0.78 is 78 pence.	Know how to convert pence into pounds up to £10 e.g. 403p = £4.03 Enter values accurately into the calculator.	Use the calculator effectively to solve addition and subtraction problems with money.	This lesson is to prepare pupils for the lesson which follows on place value, as it is based on their experience of money.	TL4 Y7 - Lesson N3.2 could be used here and numbers adapted if required. S/board p. 86, 87, 88, 89, 229



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4	Understand decimal notation for tenths and hundredths.	Be able to count in tenths on a 0 to 1 number line, divided into ten parts e.g 0.1, 0.2,....	Place decimals (U.t) on a number line e.g. 0.3, 0.7, 1.9	Order decimals (U.t up to 10), by placing them on a number line. Order money e.g. £3.56 , 730p, 54p		PFWK y456 p.28
5	Find two decimals with a sum of one. Add and subtract mentally pairs of two digit numbers for decimals .	Know that $0.4 + 0.2 = 0.6$ from knowing that $4 + 2 = 6$	Calculate mentally questions such as $1.3 + 2.4 = 3.7$	Calculate mentally questions such as $5.8 - 3.2$		S/board p. 223 Qu. 1, p.225, p.226 Qu. 1
6	Use names and abbreviations of units of length to estimate and measure.	Be able to use a ruler to measure lines in both mm and cm. Estimate the length of a line less than 20 cm.	Know and use the conversions $10\text{mm} = 1\text{cm}$ and $100\text{cm} = 1\text{m}$. Estimate a length of less than 1 metre (in cm)	Know and use the conversions $10\text{mm} = 1\text{cm}$ and $100\text{cm} = 1\text{m}$. Estimate a length up to 10m. Use decimal notation for cm and m, $486\text{ cm} = 4.86\text{m}$	Use practical lengths for pupils to estimate and measure. I TP : Ruler	S/board p. 106, 107, 114, 116, 120, 122



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7	Read and interpret scales	Read a simple scale to the nearest labelled division e.g. recording a weight as nearly 3 kg.	Read scales to the nearest division (labelled or unlabelled). Record measurements to nearest whole or half unit.	Record estimates and readings from a scale to a suitable degree of accuracy.	Use ITPs <ul style="list-style-type: none"> ▪ Measuring Cylinder ▪ Measuring scales ▪ Thermometer 	TL4 Y7- OHT N3.7b, 3.7c, PFWK y123 p.77 PFWK y456 p. 94
8	Know the units of time and simple conversions e.g. secs to mins, days to weeks. Know the common fractions of an hour in minutes. Interpret the 24 hour clock.	Know the number of secs in a min, mins in an hour, days in a week, months in a year. Read time in quarter hour intervals e.g quarter past 11 = 11.15	Know 15 mins = $\frac{1}{4}$ hour etc. Simple conversions e.g. 14 days = 2 weeks. Read the time in 5 minute intervals.	Read the time, to the nearest minute. Interpret the 24 hour clock. Begin to calculate simple time intervals e.g 11.15 to 11.45 is half an hour.	Use plastic clocks if possible. ITP : Tell the time	PFWK y123 p.78, 79 PFWK y456 p. 100, 101 S/board p. 379, 380, 381.