



Year 7 : Support Scheme of Work for pupils working at Levels 2 and 3
 Number 5 (6 hours)

Lesson	Learning Objective	Learning Outcomes			Lesson strategies, activities and ideas	Resources
		Must	Should	Could		
1	Round a number to the nearest whole number. Estimate calculations	Round numbers with one decimal place to the nearest whole number (less than 10). Estimate simple multiplication calculations e.g 3.7metres x 6	Round money to the nearest whole pound (amounts less than £10). Estimate simple multiplication calculations e.g £3.20 x 8 (Money given to nearest 10p)	Round money to the nearest whole pound (amounts up to £100) Estimate simple multiplication calculations e.g £3.24 x 8	Do not use calculators at any stage. The aim is to encourage the use of sensible estimates, not to get an accurate answer.	S/board p.344, 345
2	Use formal written methods to calculate TU + TU, HTU + TU, HTU + HTU	Be able to calculate TU + TU by a formal written method e.g. 47 + 22 (no 'carrying') → 47 + 35	Be able to calculate HTU + TU by a formal written method e.g. 457 + 42 → 457 + 43 → 457 + 67	Be able to calculate HTU + HTU by a formal written method e.g. 457 + 142 → 457 + 243 → 457 + 367	Although pupils should always be encouraged to use mental methods of calculation as a first resort, to be able to add decimals a formal written method is probably the simplest approach. Idea : use an arithmagon (e.g. simpler versions of S/board p. 82)	S/board p. 80, 81, 82



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3	Use formal written methods to perform simple decimal calculations	Be able to calculate U.t + U.t by a formal written method e.g. $4.7 + 2.2$ (no 'carrying') $\rightarrow 4.7 + 3.5$	Be able to calculate money additions by a formal written method e.g. $\pounds 4.57 + \pounds 4.20 \rightarrow \pounds 4.57 + \pounds 4.32 \rightarrow \pounds 4.57 + \pounds 3.26$	Be able to calculate money additions by a formal written method where one of the values is given in pence e.g. $\pounds 4.36 + 78p$	Starter : converting pence to \pounds s and vice versa.	S/board p. 223 (qu 1 done by a formal method), p.224
4	Solve problems involving money	Solve simple word problems e.g. a shopping bill set out in columns	Add a simple shopping bill by writing the values in columns (all values in pounds).	Add a simple shopping bill by writing the values in columns (some values in pence).		S/board p. 88, 89
5	Use a calculator effectively for addition and subtraction calculations involving money.	Enter up to 3 money values (written as U.th) correctly and carry out the calculation . Be able to interpret the display e.g 6.7 is $\pounds 6.70$	Enter a number of money values (written as U.th) correctly and carry out the calculation .	Enter a number of money values, some written in pence, correctly and carry out the calculation . e.g. $\pounds 4.70 + \pounds 3.56 + 56p + 8p$		



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6	Carry out simple addition calculation involving lengths	Be able to write lengths in cm e.g. 6 cm and 3 mm is 6.3 cm Add simple lengths together e.g. 3.4 cm + 5.8 cm	Add three simple lengths together e.g. 13.4 cm + 5.6 cm + 3.9 cm	Add together lengths in mm and cm & mm e.g. 7.3 cm + 5mm	Pupils could measure lengths of objects in cm and the add answers together. I TP : Ruler	S/board p 228 Star Challenge 6, qus 1-4