

Progression Step 1:

- Add and subtract numbers with increasing value using mental methods (Make sure you teach the skill of estimation throughout this step)

Link to National Curriculum

- Use estimation to check answers to calculations and determine, in the context of a problem, an appropriate degree of accuracy.

Possible Pre Learning to be revisited

Depending on your outcome of your pre assessment, you may need to revisit the year 5 objectives (see pre assessment coverage above).

White Rose Small Steps which could be used

Add and subtract integers (select the mental methods from this planning)

Post Assessment End Point

$980,000 - 450,000 = \boxed{}$

$23,005 - \boxed{} = 21,006$

$\boxed{} + 3,500 = 8,400$

Cars for sale: price list	
Car A	£2,750
Car B	£19,500
Car C	£24,999
Car D	£45,000

Cars for sale: price list	
Car A	£2,750
Car B	£19,500
Car C	£24,999
Car D	£45,000

$3,050,020 = 3,000,000 + \boxed{} + 20$

a) Estimate the total cost of all four cars.

b) Estimate the difference in price between the most expensive car and the least expensive car.

Pre Assessment 2 Coverage (this covers progression step 2 and 3)

Year 5 objectives to be recapped including:

* Addition of 4- and 5-digit numbers using a formal method (including regrouping)

* Addition of numbers with up to 3 decimal places using formal methods (including regrouping)

$$\begin{array}{r} 56833 \\ + 44105 \\ \hline \end{array}$$

$$\begin{array}{r} 930.68 \\ - 220.55 \\ \hline \\ \hline \end{array}$$

$53,689 + 8,014 = \boxed{}$

$36,342 - 27,838 = \boxed{}$

Progression Step 2:

- Column addition of whole numbers with more than 4 digits without exchanging including solving problems
- Column addition of numbers with up to 3 decimal places without exchanging including solving problems

Link to National Curriculum

- Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why
- Use estimation to check answers to calculations and determine, in the context of a problem, an appropriate degree of accuracy.
- Solve problems involving the calculation and conversion of units of measure, using decimal notation up to three decimal places where appropriate

Possible Pre Learning to be revisited

Children will have been taught this knowledge in Year 5 and this unit should be heavily focused on reasoning and problem solving following a quick retrieval of the fluency strategy. Your pre assessment will inform how long you need to spend on this retrieval.

White Rose Small Steps which could be used

Add and subtract integers (new scheme)
 *The old scheme breaks it down further which may be useful for children who require more support

Progression Step 3:

- Column addition of whole numbers with more than 4 digits with exchanging including solving problems
- Column addition of numbers with up to 3 decimal places with exchanging including solving problems

Link to National Curriculum

- Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why
- Use estimation to check answers to calculations and determine, in the context of a problem, an appropriate degree of accuracy.
- Solve problems involving the calculation and conversion of units of measure, using decimal notation up to three decimal places where appropriate

Possible Pre Learning to be revisited

Children will have been taught this knowledge in Year 5 and this unit should be heavily focused on reasoning and problem solving following a quick retrieval of the fluency strategy. Your pre assessment will inform how long you need to spend on this retrieval.
 Children who are not secure in the earlier step will need targeted intervention before this step.

White Rose Small Steps which could be used

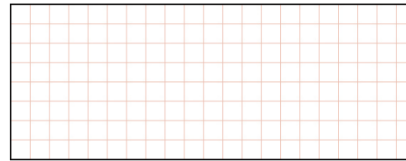
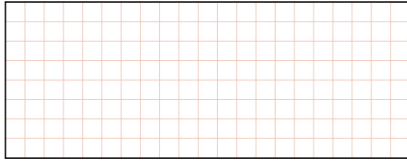
Add and subtract integers (new scheme)
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Post Assessment End Point

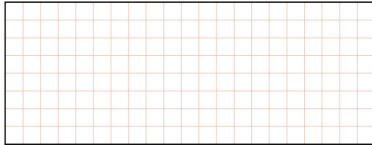
$89,994 + 7,643 = \boxed{}$

$6,155 + 501 + 649 = \boxed{}$

$$\begin{array}{r} 207163 \\ + 421221 \\ \hline \end{array}$$



$15.98 + 26.314 = \boxed{}$



Bilbo needs to restock his pantry.

He spends £24.79 on cheese, £32.76 on fruit and veg and £56.90 on plates.

What is the total cost of Bilbo's shopping?

Mr Green drives a lorry. Last week he drove 19,765 miles, 23,082 miles and 16,435 miles on his 3 journeys. This week he drove 30,932 miles and 26,975 miles on his 2 journeys.

How many miles has he driven altogether over the last two weeks?

Pre Assessment 3 Coverage (this covers progression step 4 and 5)

Year 5 objectives to be recapped including:

*Subtraction of 4- and 5-digit numbers using a formal method (including regrouping)

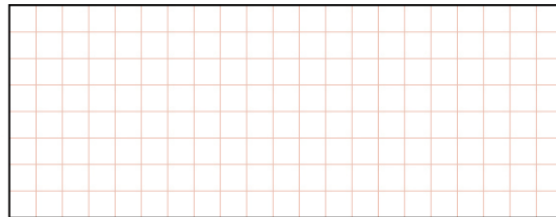
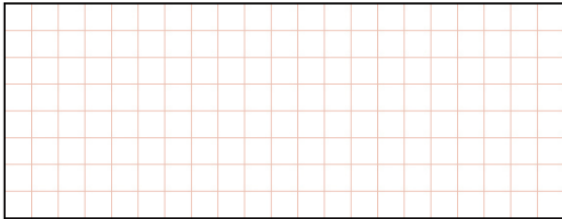
*Subtraction of numbers with up to 3 decimal places using formal methods (including regrouping)

$$\begin{array}{r} 84942 \\ - 10402 \\ \hline \end{array}$$

$15.768 - 11.432 = \boxed{}$

$36.4 - 27.8 =$

$45,679 - 27,735 =$



Progression Step 4:

- Column subtraction of whole numbers with more than 4 digits without exchanging including solving problems (including missing digits)
- Column addition of numbers with up to 3 decimal places without exchanging including solving problems (including missing digits)

Link to National Curriculum

Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why
Use estimation to check answers to calculations and determine, in the context of a problem, an appropriate degree of accuracy.
Solve problems involving the calculation and conversion of units of measure, using decimal notation up to three decimal places where appropriate

Possible Pre Learning to be revisited

Children will have been taught this knowledge in Year 5 and this unit should be heavily focused on reasoning and problem solving following a quick retrieval of the fluency strategy. Your pre assessment will inform how long you need to spend on this retrieval.

White Rose Small Steps which could be used

Add and subtract integers (new scheme)
*The old scheme breaks it down further which may be useful for children who require more support

Progression Step 5:

- Column subtraction of whole numbers with more than 4 digits with exchanging including solving problems (including missing digits)

- Column addition of numbers with up to 3 decimal places with exchanging including solving problems (including missing digits)

Link to National Curriculum

Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why
 Use estimation to check answers to calculations and determine, in the context of a problem, an appropriate degree of accuracy.
 Solve problems involving the calculation and conversion of units of measure, using decimal notation up to three decimal places where appropriate

Possible Pre Learning to be revisited

Children will have been taught this knowledge in Year 5 and this unit should be heavily focused on reasoning and problem solving following a quick retrieval of the fluency strategy. Your pre assessment will inform how long you need to spend on this retrieval.
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White Rose Small Steps which could be used

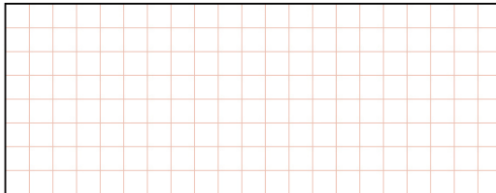
Add and subtract integers (new scheme)
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Post Assessment End Point

$37.8 - 14.671 =$

$345,102 - 78,907 =$

$$\begin{array}{r} 656347 \\ - 535333 \\ \hline \end{array}$$



One Saturday afternoon, a total of 234,869 people attended three rugby matches.

- 80,978 people attended match 1
- 72,319 people attended match 2

How many people attended match 3?

Show your method

7 marks

$$\begin{array}{r}
 1. \quad \begin{array}{|c|c|c|c|c|} \hline \boxed{9} & \boxed{} & \boxed{3} & \boxed{} & \boxed{8} \\ \hline \boxed{} & \boxed{1} & \boxed{} & \boxed{8} & \boxed{8} \\ \hline \hline \boxed{8} & \boxed{6} & \boxed{4} & \boxed{2} & \boxed{0} \\ \hline \end{array} \\
 \end{array}$$

Each shape stands for a number.

▲	●	●	← Total = 27
▲	▲	●	
▲	●	☆	← Total = 30

Total = 45

Work out the value of each shape.

▲ =

● =

☆ =