ALMOND HILL JUNIOR SCHOOL MEDIUM TERM PLAN

TOPIC TITLE/SUBJECT: LS4   Problem solving with four operations   **YEAR GROUP: 6**   **TERM: Autumn 1**

Vocabulary	Skills	What we already know

addition
subtraction
multiplication
divide
calculation
estimation
problem solving
mixed operations
accuracy
mental methods
strategies
bar model
	• Using a bar model to solve multi-step problems
	
	• Solve problems by working backwards
	
	• Finding a starting point / prioritising
	
	• Select an appropriate problem-solving strategy
		• The four operations are:
		   - addition
		   - subtraction
		   - division
		   - multiplication
		
		• Addition and subtraction are commutative and can understanding can be used inversely
		• Multiplication and division are commutative and can be used inversely.
		• Problem solving strategies e.g. RUCSAC

Illustration

Bob
Kate

Work out the values of these shapes

12

4.5

Kerry is 15 kilograms lighter than Amy.
Gary is twice as heavy as Kerry and James is seven kilograms heavier than Gary.

If James weighs 71 kilograms, what is Amy's weight?

This table shows the heights of three mountains.

Mountain	Height in metres
Mount Everest	8,848
Mount Kilimanjaro	5,895
Ben Nevis	1,344

How much higher is Mount Everest than the combined height of the other two mountains?

Show your method

5,895	1,344	?

8,848

1,609   m

7,239	?

8,848

RUCSAC
Read and label – identify need to know facts
Underline key numbers and vocabulary
Choose the calculation(s) and estimate
Solve-do the calculations
Answer – what does it mean?
Check and consider