



ALMOND HILL JUNIOR SCHOOL MEDIUM TERM PLAN

TOPIC TITLE/SUBJECT: LS3 Choosing effective Mental strategies

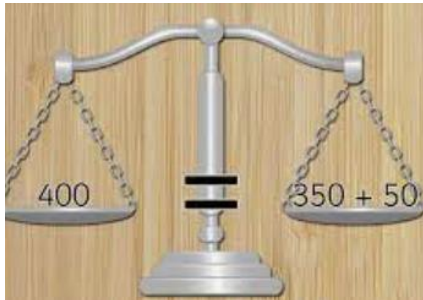
YEAR GROUP: 6

TERM: Autumn 1

Vocabulary	Skills	What we already know
<p>recall operation adjusting appropriate calculation reason strategy estimate manageable numbers efficient application</p>	<ul style="list-style-type: none"> Reasoning the efficiency of mental strategies Using estimation to check mental calculations Applying and combining mental strategies to solve problems 	<ul style="list-style-type: none"> Formal written strategies for addition, subtraction, multiplication and division (Column methods, long and short multiplication, bus stop method of division) Partitioning (most) Regrouping (some) Numbers to 1, 000, 000 Estimation is a tool to support achieving correct answer to a calculation

Illustration

"If I know this...
what else do I know?"



FACT FAMILIES

If I know
7 + 9 = 16...
Then I know...
9 + 7 = 16
16 - 7 = 9
16 - 9 = 7

If I know
6 x 4 = 24
Then I know
4 x 6 = 24
24 ÷ 6 = 4
24 ÷ 4 = 6

Remember, "Now we know this, we must also know this, this and this!"

36 + 17
+4 -4
40 + 13
53

0.135 + □ = 1.06	160 x 35
1.7 + 0.05	0.4 ÷ 10
475 ÷ 1	320 x 0
460 = □ - 35	640 ÷ □ = 8
532,525 - 9,997	9,999 + 397
22 x 8	46.8 - 23.566

Match the calculation to the most effective strategy

Calculation strategies:
Place value - digit position, place value - use known facts, equal sum/difference, regrouping, one/zero effect, doubling/halving