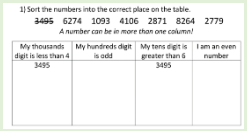
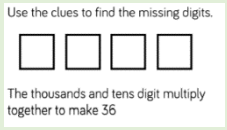
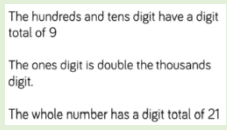
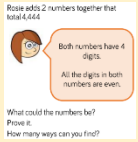
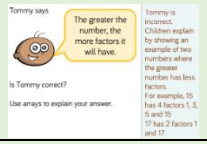
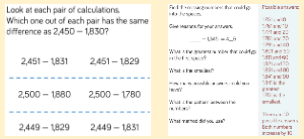
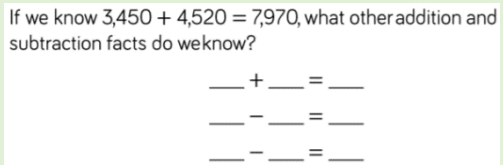
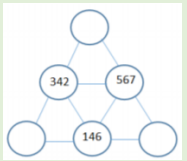
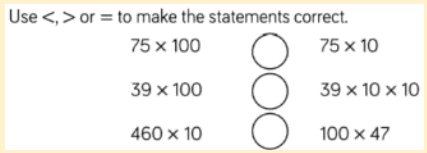
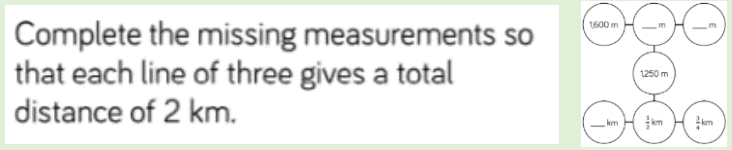
Y4 Maths Medium Term Plan 2020-21: Autumn Cycle 1

Back to School	Addition	Multiplication: Tables	Subtraction	Multiply & Divide (1 & 10 & 100)	Count in Multiples	Contingency weeks to give space for longer than a week for some areas or single session recall of taught topics.	Back to School	Multiplication: Tables
Place Value: read, write, order and compare Th.H.T.O.		Multiplication: Factors & Factor Pairs	Inverse (+/-)	Measure: Conversion	Shape: classify and compare properties		Decimals ordering and comparing decimals & integers	Division

Week	Arithmetic	Reasoning
1	Back to school	**Place Value** **Recall from Y3:** 1. Read and write numbers up to 1000 in numerals and in words 2. Recognise the place value of each digit in a three-digit number (HTO) 3. Compare and order numbers up to 1000 **One Star:** L: Can I use **place value** to compare 2-digit numbers? Use < = > to compare the 2-digit numbers. 45 __ 54 **Two Star:** L: Can I read and write 3-digit numbers using **partitioning**? 400 + 70 + 3 =_____, 894 = H: __+ T: __+ O: __ **Expected Standard:** Can I recognise **place value** in a four-digit number? (ThHTO) What is the value of the underlined digit? 4**5**02 **Stretch:**   
2	**Addition** **Recall from Y3:** Add numbers with up to three digits, using formal written (column) methods **One Star:** L: Can I use an **efficient** method to add 2-digit numbers? 23 + 12 = **Two Star:** Can I use the **column method** to add 3-digit numbers using? **Expected Standard:** L: Can I use the column method (with up to 4 digits) with **regrouping**? **Stretch:**  	
3	**Multiplication Tables** **Recall from Y3:** Recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables. **One Star:** L: Can I recall **multiplication** facts using x2, x5 and x10? 7 x 5 = __, 8 x 10 = __	**Multiplication: Factors & Commutativity** **Recall from Y3: N/A** **One Star:** Can I find the missing **factor**? Find the missing factor to complete the number sentence: 2 x __ = 8 **Two Star:** L: Can I identify **factor pairs**?

Y4 Maths Medium Term Plan 2020-21: Autumn Cycle 1

	Two Star: L: Can I recall **multiplication** and **division** facts up to 12 x 6? 7 x 3 = __, 8 x 4 = __ **Expected Standard:** L: Can I recall **multiplication** and **division** facts up to 12 x 12? 6 x 9 = __ so __ ÷ 9 = 6 **Stretch:**	Identify the factor pair to complete the number sentence: __ x __ = 15 **Expected Standard:** Can I recognise and use **factor pairs** and **commutativity**? Q: 3 x 5 = 15 = 5 x__=__ 2 x __= 10 =__x__=__ **Stretch:** 
4	**Subtraction** **Recall from Y3:** Subtract numbers with up to three digits, using formal written (column) methods **One Star:** L: Can I use an **efficient** method to subtract 1 and 2-digit numbers? 23 – 12 = **Two Star: L:** Can I use column **subtraction** with 3-digit numbers? 453 - 221 **Expected Standard:** L: Can I use column **subtraction** with **regrouping**? E.g. 383 - 105 **Stretch:** 	**Inverse Operations: Addition & Subtraction** **Recall from Y3:** Use inverse operations (+/-) to check answers **One Star:** L: Can I complete the **inverse** number sentences? 9 + 3 = ___, 12 – 9 =___ **Two Star:** L: Can I use **inverse** operations? Using the digits complete the inverse number sentences: 9, 17, 8, __ + __ = __, __ - __ = __ **Expected Standard:** L: Can I use **inverse** operations (+/-) to check answers to calculations? Use addition to check if this sentence is correct: 25 – 8 = 17 **Stretch:**  
5	**Multiplication by 1,10 & 100** **Recall from Y3:** Multiply and divide up to three-digit numbers by one, ten and a hundred **One Star:** L: Can I **multiply** 1 and 2-digit numbers by one and ten? 3 x 10 = __, 27 x 10 =__, 4 x 1 = __, 19 x 1 = __ **Two Star:** L: Can I **multiply** and **divide** 2 and 3-digit numbers by one and ten? 23 x 10 = __, 40 ÷ 10 =__, 34 x 1 = __, 23 ÷ 1 = __ **Expected Standard:** L: Can I **multiply** and **divide** up to 4-digit numbers by one, ten and a hundred? 203 x 100 = __, 400 ÷ 100 =__, 394 x 1 = __, 720 ÷ 10 = __ **Stretch:** 	**Measure: Length & Mass** **Recall from Y3:** Measure, compare, add and subtract lengths (m/cm/mm), mass (kg/g), volume/capacity (l/ml) **One Star:** L: Can I calculate units of measure including **length** (cm & mm) and **mass** (g & kg)? Use the scale to calculate length and mass. **Two Star:** L: Can I calculate and convert units of measure including **length** and **mass**? Convert the units of length and mass: 20cm = ___mm 0.8kg = ___g **Expected Standard:** L: Can I convert and compare units of measure including **length** and **mass**? Use < = > to compare the units of lengths and mass: 100g ___1kg 50 mm __ 2cm **Stretch:** 

Y4 Maths Medium Term Plan 2020-21: Autumn Cycle 1

<table>
<tr>
<td>6</td>
<td>
Place Value: Count in Multiples
Recall from Y3: Count from 0 in multiples of 4, 8, 50 and 100.
One Star: L: Can I count up in multiples of 2 and 5?
Count up in 2‘s from:
<table>
<tr><td>0</td><td>2</td><td></td><td></td><td></td><td></td><td></td></tr>
<tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr>
</table>
Two Star: L: Can I count up in multiples of 3, 4 and 6?
Count up in 4‘s from:
<table>
<tr><td>0</td><td>4</td><td></td><td></td><td></td><td></td><td></td></tr>
<tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr>
</table>
Expected Standard: L: Can I count up in multiples of 7, 9, 25 and 1000?
Count up in 7‘s from:
<table>
<tr><td></td><td>7</td><td></td><td></td><td></td><td></td><td></td></tr>
<tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr>
</table>
Stretch:
Ron is counting down in 25s from 790.
Will he say 725?

Explain your answer.
Whitney is counting in 25s and 1,000s. She says:
• Multiples of 1,000 are also multiples of 25
• Multiples of 25 are therefore multiples of 1,000
Do you agree with Whitney? Explain why.
I don't agree. Multiples of 1,000 are multiples of 25 because 25 goes into 1,000 exactly, but not all multiples of 25 are multiples of 1,000 e.g. 1,075
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Shape
Recall from Y3: Recognise angles as a property of shape
One Star: L: Can I identify sides and vertices? How many sides and vertices does this shape have?
Two Star: L: Can I classify triangles, quadrilaterals, pentagons and hexagons? A triangle has 3 sides and 3 vertices. A quadrilateral has 4 sides and 4 vertices. A pentagon has 5 sides and vertices. Classify this shape: _____
Expected Standard: L: Can classify regular and irregular 2D shapes (using their properties)? Read the information about the properties of 2D shapes and (using a ruler) connect the name to the correct 2D shape.
Stretch: Draw an irregular quadrilateral with two parallel lines.
</td>
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<tr><td>7</td><td colspan="2" rowspan="2">Consolidation Weeks</td></tr>
<tr><td>8</td></tr>
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<td>9</td>
<td>Back to school</td>
<td>
Place Value: Decimals
Recall from Y3: Compare and order numbers up to 1000
One Star: Can I order integers with the same number of digits? Put the integers in ascending order: 17, 77, 16, 76, 67
Two Star: L: Can I order and compare decimals numbers (with the same number of digits up to two decimal places)? Use < = > to compare the decimals: 0.5 ___ 0.7, 0.05 __0.11, 0.75 __ 0.59
Expected Standard: L: Can I order and compare integers and decimals numbers with the same number of digits (up to two decimal places)? Put the decimals in ascending order:
0.23, 0.32, 0.03, 0.22, 0.02
Stretch:
0.09 < 0.99 < 10.01 < 1.35 < 9.09
Can you explain her mistake?
A number with one decimal place rounded to the nearest whole number is 45

What could the number be?
The number could be:
44.5, 44.6, 44.7, 44.8, 44.9, 45.1, 45.2, 45.3 or 45.4
Use each digit card once to make the statement correct.
0 1 2 4 5
3.□□ > □.□□
Can you find eight different possible solutions?
Some possible solutions:
3.12 > 0.45
3.24 > 1.05
3.45 > 1.02
3.01 > 2.45
3.42 > 2.01
3.45 > 0.12
3.02 > 1.45
3.24 > 1.05
</td>
</tr>
</table>

Y4 Maths Medium Term Plan 2020-21: Autumn Cycle 1

10	**Multiplication Tables** **Recall from Y3:** Recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables. **One Star:** L: Can I recall **multiplication** facts using x2, x5 and x10? 7 x 5 = __, 8 x 10 = __ **Two Star:** L: Can I recall **multiplication** and **division** facts up to 12 x 6? 7 x 3 = __, 8 x 4 = __ **Expected Standard:** L: Can I recall **multiplication** and **division** facts up to 12 x 12? 6 x 9 = __ so __ ÷ 9 = 6 **Stretch:**	**Division** **Recall from Y3:** use multiplication and division facts for the 3, 4 and 8 multiplication tables. **One Star:** L: Can I **divide** 2-digit numbers using **multiplication** facts? 30 ÷ 5 = **Two Star:** L: Can I **divide** 2-digit numbers using the bus stop method? 48 ÷ 3 = **Expected Standard:** L: Can I **divide** 3-digit numbers using the bus stop method? 126 ÷ 2 = **Stretch:**