

Date (week commencing)	Numbers to learn
01/11/2021	5.1 – 5.12
08/11/2021	5.11 – 6.10
15/11/2021	6.1 – 6.17
22/11/2021	5.1 – 6.17
29/11/2021	1.1 – 1.20 & 5.1 – 5.12
06/12/2021	2.1 – 4.5 & 6.1 – 6.17
13/12/2021	1.1 – 6.17

Learning means...

I am using look >> cover >> write >> check at least twice for this week's facts

I made flash cards ("Question" on one side and "Answer" on the other) for the facts and got someone to test me on them at least twice

I used Quizlet to practise the fact for 5 minutes everyday.

so that...

I achieve the minimum score of 8/10 on the quiz.

Unit 5 – positive and negative numbers			
No.	Question	Answer	Example
5.1	Integer	A whole number	7, 10, (-5), 123
5.2	Positive Number	Any number greater than zero	2, 10, 150
5.3	Negative Number	Any number smaller than zero	(-4), (-5), -123
5.4	Absolute Value	The distance a number is from zero.	The absolute value of -3 is 3. The absolute value of 2 is 2.
5.5	What does + (+4) mean?	Increase by positive four (go up 4)	
5.6	What does + (-7) mean?	Increase by negative seven (do down seven)	
5.7	What does -(+2) mean?	Subtract positive two (go down 2)	
5.8	What does -(-5) mean?	Subtract negative 5 (go up 5)	
5.9	What does sum mean?	Add	The sum of 4 and 5 is 9
5.10	What does subtract mean?	Take away	10 subtract 4 is 6
5.11	What is a scale factor?	How much the number has been scaled by	3 x (-10) = -30. This is stretching (-10) by a scale factor of 3.
5.12	What is a negative scale factor?	How much the number has been scaled by in the opposite direction	(-3) x (8) = (-24). This is stretching (8) by a scale factor of (-3).

Unit 6 – expressions, equations and inequalities		
No.	Question	Answer
6.1	What does 7y mean?	7 x y
6.2	What does ab mean?	a x b
6.3	What does 3uv mean?	3 x u x v
6.4	What does $\frac{x}{4}$ mean?	$x \div 4$
6.5	Variable	A symbol (usually a letter) used to represent an unknown value e.g. x
6.6	Term (algebra)	Each part of an expression separated by a + or – (e.g. in $x^2 - 2x + 4$, x^2 , 4 and $- 2x$ are the terms)
6.7	Expression	A value written using at least one variable (e.g. 3b or 5t – 9s)
6.8	Substitute	Replace the variable with something else
6.9	Like Terms	Terms that have the same letter and same index (e.g. $2x^2$ and $5x^2$)
6.10	Collect Like Terms	Write all like terms as a single term by adding or subtracting them together
6.11	Expand	Multiply the coefficient outside the brackets with each term inside the brackets Eg) $3(2y + 7) \ggg 6y + 21$
6.12	Factorise	Find the common factor of all the terms and divide so that it is outside the bracket Eg) $6y + 21 \ggg 3(2y + 7)$
6.13	Equation	An expression shown to be equal to another value (e.g. $3b = 50$ or $5t - 9s = 10t - 9s - 7$)
6.14	Coefficient	The number in front of the variable (e.g. for 2x, 2 is the coefficient of x)
6.15	Inequality	A comparison of two expressions other than “=”
6.16	Perimeter	The total distance around the outer edge of a shape
6.17	What does strategic mean?	To have made a logical plan

Unit 1 – numbers and numerals

No.	Question	Answer
1.1	What is analogue display?	A circular clock face with “hands”
1.2	What is digital display?	A clock displaying time in digits
1.3	How many digits do 24 hour clocks always have?	4 (2 for hours and 2 for minutes)
1.4	What does am mean?	Before noon
1.5	What does pm mean?	Afternoon
1.6	With which clock do you use am and pm?	12 hour clock
1.7	How many seconds in a minute?	60
1.8	How many minutes in an hour?	60
1.9	How many hours in a day?	24
1.10	What does “ > ” mean?	Greater than e.g. $3 > 2$
1.11	What does “ < ” mean?	Smaller than e.g. $2 < 3$
1.12	What does “ = ” mean?	The same as
1.13	What is place value?	The value of where the digit is in the number
1.14	How do you write one?	1
1.15	How do you write ten?	10
1.16	How do you write a hundred?	100
1.17	How do you write a thousand?	1000
1.18	How do you write ten thousand?	10,000
1.19	How do you write a hundred thousand?	100,000
1.20	How do you write a million?	1,000,000

Unit 2 – axioms and arrays

No.	Question	Answer
2.1	What is multiplication?	Counting the total of a number of equally sized groups
2.2	What is division?	Splitting into equal parts
2.3	What is commutativity?	The operation can be applied to two numbers in any order
2.4	Which two operations are commutative?	Multiplication and addition
2.5	What is associativity?	Grouping numbers to make the calculation easier
2.6	What is distributivity?	Multiplying a number by a group of numbers added together
2.7	What is a conjecture?	An educated guess

Unit 3 – factors and multiples

No.	Question	Answer
3.1	What is a factor?	A factor of a number divides that number exactly leaving no remainder
3.2	What is a prime number?	A prime number has exactly 2 factors, itself and 1
3.3	What is a square number	A square number is the result of multiplying an integer by itself
3.4	What is a multiple?	Multiples of a number are found in the number’s times-table
3.5	What is a counter example?	An example which contradicts the original statement

Unit 4 – order of operations

No.	Question	Answer
4.1	Which operation has equal priority with addition?	Subtraction
4.2	Which operation has equal priority with multiplication?	Division
4.3	What do brackets mean?	Do this part first!
4.4	How do you find the area of a rectangle?	Length X Width
4.5	What is a variable?	A letter which represents an unknown number

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