

YEAR
9



St. Aldhelm's
Academy



End of Year Assessment

Find the nth term rule:



Use position-to-term rules to generate a sequence and find the nth term



DIRT



Square



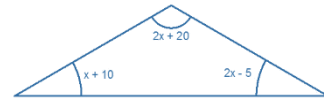
Rectangle



Parallelogram

Find the area of squares, rectangles and parallelograms

Find the area of Compound Shapes



Solve area problems involving Algebra



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Term 6 – Area and Recap

Continue a sequence when given the term-to-term rule

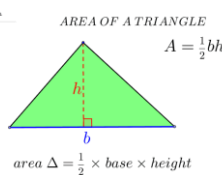


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$$2(3a + 5)$$

Solving Equations with Single brackets

Find the area of triangles and trapezia



$$\text{area } \Delta = \frac{1}{2} \times \text{base} \times \text{height}$$

Find missing sides when given the Area

Solve one-step and two-step equations



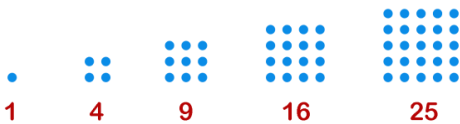
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Substitute values into an expression and apply knowledge of function machines to two step equations

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Term 5 – Manipulating Expressions and Solving Equations

Explore Sequences by looking at patterns



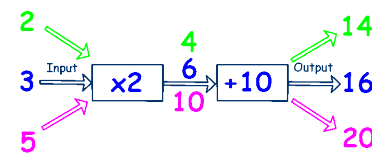
Ordering Fractions, Decimals and Percentages



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Using ratio language and identifying ratios and fractions from diagrams

Collect Like Terms and Expand a single bracket



Find the input/output from function machines



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Term 4 – Ratio and Solving Equations

Ordering Fractions

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Convert between fractions and decimals

$$\text{Decimals to Fractions} \\ 0.36 \rightarrow \frac{9}{25}$$

Interchange between fractional and decimal number lines

Introducing the ratio symbol and calculating and simplifying ratios

RATIOS
3:7

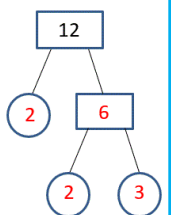
Increasing and decreasing by a % and Simple Interest

Finding 10% of an amount and multiples of 10%

Use Diagrams and letters to generalise number operations and apply to function machines given an expression



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Ordering Decimals

7.8	7.2	6.1	8.4	5.4
Solution				
5.4	6.1	7.2	7.8	8.4



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Simplifying Fractions and Equivalence

Represent Tenths and hundredths

Adding and Subtracting Fractions including mixed numbers and improper fractions

Finding % and other multiples of 5%



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Understanding the % symbol

Prime Factors and Multiples of a Number

Prime Factorisation

HCF and LCM by using Prime Factorisation



Term 3 – Percentages, Decimals and Fractions

Understand and use the order of operations

Use and calculate with Index Notation

Multiply and Divide Negative Numbers

Add and Subtract Negative Numbers

Understand Negative numbers

Addition and Subtraction with Decimals

Addition and Subtraction

Place Value and Rounding

10,000,000s 10 millions	1,000,000s millions	100,000s hundred thousands	10,000s ten thousands	1,000s thousands	100s hundreds	10s tens	1 ones
8	7	5	3	1	4	6	9
eighty seven million, five hundred thirty one thousand, four hundred sixty nine							

Term 2 – Fractions

Representing Fractions

Add and Subtract Negative Numbers



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Improper Fractions and Mixed Numbers

Multiplication and Division with Decimals

Multiplying and Dividing Fractions including mixed numbers and improper fractions

Multiplication and Division

Ordering numbers and using Inequality Symbols

Identifying Prime, Square and Cube Numbers

HCF and LCM by Listing Factors



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welcome

