



The Hive: Maths Learning Map

- TERM 1 -

Applying Number Skills

We will be revisiting and applying number skills such as inverse, multiples, multiples and primes to solve problems.

We will plot **straight line graphs** and solve **algebraic equations** using their knowledge of four operations and inverse. They will use their knowledge of **multiples, factors and primes** to solve problems with number and answer multiplication and division problems mentally.

We will be looking at **three dimensional shapes**, how we describe them and how we use these classifications to describe their surface area and volume.

We will finish the year looking at **constructions**, creating mathematical diagrams and using these to deduce unknown information.

Units covered this term:

- Straight line graphs
- Forming and solving equations
- Multiples, factors and primes
- Three dimensional shapes
- Constructions and congruency



LINKS TO PRIOR LEARNING

Using inverse to solve algebraic equations and use substitution to draw straight line graphs.

- TERM 2 -

Reasoning with Number and Geometry

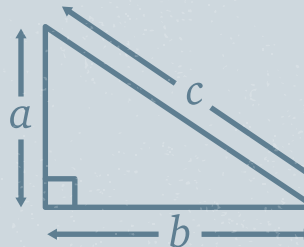
We will be revisiting our **number** skills, particularly using four operations with decimals. We will then use these to solve problems with **percentages** and **money**.

Our **deduction** unit will allow us to explore angle rules and practice our problem solving using our number skills.

We will be learning about how **rotation** affects shapes on the page and how we describe these movements, and using vectors to describe **translation**.

Units covered this term:

- Numbers
- Percentages
- Maths and money
- Deduction
- Rotation and translation
- Pythagoras theorem



LINKS TO PRIOR LEARNING

Revisit substitution and solving equations from term 1.
Equivalent fractions/decimals/percentages to solve percentage problems.

- TERM 3 -

Multiplicative Change, Ratio and Proportion

Students develop their knowledge of transformations to include **enlargement**, learning the mathematical meaning of the word **similar**.

In our **ratio** unit students will learn about inverse proportion and where we meet this in the real world. We will have an opportunity to apply these proportion skills in our **rates** unit. Student will use inverse relationships to explore speed, distance and time in detail.

Our probability unit will allow us to use a range of mathematical problem solving to solve problems, and we will finish the year with an opportunity to revise some key algebraic skills which use the proportion and inverse skills seen throughout this half term.

Units covered this term:

- Enlargement and similarity
- Solving ratio and proportion problems
- Rates
- Probability
- Algebraic Representation



LINKS TO PRIOR LEARNING

Using inverse to find proportion, multiplying by decimals for enlargement and probability problems.