

Subject:

Mathematics



HECKMONDWIKE
GRAMMAR SCHOOL

KS3 - Year 7 Curriculum Overview

	Topics being taught	What you will be assessed on	How you can support at home
Autumn Term	Number Operations <ul style="list-style-type: none">- Addition, Subtraction, Multiplication and Division of Decimals- Negative Numbers- Order of Operations- Effective use of a Calculator Geometry <ul style="list-style-type: none">- Properties of Shape- Angle Properties Algebraic Notation <ul style="list-style-type: none">- Indices, Powers and Roots- Prime factors- Dealing with Algebraic Expressions	Term 1 <ul style="list-style-type: none">Topic Test on NumberTopic Test on Geometry	<ul style="list-style-type: none">Check your child has their name on their scientific calculator and make sure they have it packed in their bag each day.Ask your child to show you how the website <i>DrFrost</i> has homework set up for them.Encourage your child to show their working in their maths book.Keep up with mental arithmetic skills, especially multiplication and division facts
		Term 2 <ul style="list-style-type: none">Synoptic Test on Number and GeometryTopic Test on Algebraic Notation	

CHRISTMAS HOLIDAYS - CHRISTMAS HOLIDAYS - CHRISTMAS HOLIDAYS - CHRISTMAS HOLIDAYS

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Spring Term	Equations <ul style="list-style-type: none">- Setting up and solving linear equations-Function Machines-Change subject of a formula Application of Number <ul style="list-style-type: none">-Rounding and Approximation-Solving Real life number problems Fractions, Decimals & Percentages <ul style="list-style-type: none">-Calculations with fractions-Problems involving % and % change 3-Dimensional Shapes <ul style="list-style-type: none">-Nets and Constructions-Area and Volume-Metric and Imperial Units-Plans and Elevations	Term 3 <ul style="list-style-type: none">Topic Test on EquationsTopic Test on Fractions, Decimals & Percentages	<ul style="list-style-type: none">Ask your child to show you what independent revision they can do on website <i>DrFrost</i>.Explore enrichment in maths through maths puzzles and games on the nrich https://nrich.maths.org/Best revision in maths is to do maths https://corbetmaths.com/5-a-day/gcse/Ask your child to construct a net of a triangular prism and a square-based pyramid using only a pencil, a ruler and a pair of compasses.
		Term 4 <ul style="list-style-type: none">Topic Test on Application of NumberSynoptic Test on everything up to Fractions, Decimals & Percentages	

EASTER HOLIDAYS - EASTER HOLIDAYS - EASTER HOLIDAYS - EASTER HOLIDAYS - EASTER HOLIDAYS

	Topics being taught	What you will be assessed on	How you can support at home
Summer Term	Probability <ul style="list-style-type: none">- Theoretical and Experimental Probability Ratio and Proportion <ul style="list-style-type: none">- Solve problems involving ratio and proportion Sequences <ul style="list-style-type: none">-Coordinates-Linear sequences-Equations of lines Statistics <ul style="list-style-type: none">-The handling data cycle-Calculations of Averages-Statistical diagrams-Correlation	Term 5 <ul style="list-style-type: none">Topic Test on 3-D ShapesTopic Test on ProbabilityTopic Test on Ratio & Proportion	<ul style="list-style-type: none">Ask your child to explain what bar modelling isEncourage your child to have clear presentation of solutions in their books.Encourage your child to revise for maths using websites such as <i>DrFrost</i> and Corbett Maths for practice.Explore enrichment through maths challenges: https://www.ukmt.org.uk/competitions/solo/juni-or-mathematical-challenge/archive
		Term 6 <ul style="list-style-type: none">Synoptic Tests on everything up to Sequences	