Year 9 Curriculum Implementation: Mathematics

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
	Multiples Factors and Primes	Accuracy	Graphs, Equations and Gradients	Probability Diagrams	Scatter Graphs	Compound Measures
	Find products of primes	Find upper and lower bounds from	Draw straight line graphs	Construct and interpret Venn	Plot points on a scatter graph and draw lines	Know units for and calculate using speed
	Find HCF from products of primes	rounding integers	Draw quadratic graphs	Diagrams including probability.	of best fit	(proportion method)
	Find LCM from products of primes	Find upper and lower bounds	Recognise exponential and	Draw and label tree diagrams to	Identify correlation and comment	Know units for and calculate using density
	Tind Levi Herr products of primes	from rounding decimals	reciprocal graphs	represent combined events	Use a scatter graph to estimate values	(proportion method)
	Angles in Parallel Lines	Find upper and lower bounds	Understand y = mx + c	Use tree diagrams to combine	Social doubles graph to committee values	Know the formulae and methods for Speed
	Understanding and using alternate angles	from rounding to significant	Find the gradient	independent events with "AND"	<u>Volume</u>	and Density
	Understand and use corresponding angles	figures	Finding the equation from a	rule	Calculate the volume of a prisms including	Solve problems involving compound
	Understand and use co-interior angles	Represent rounding as an	graph		cylinders	measures
		inequality	8.25	Equations, inequalities and formulae	Calculate the volume of pyramids and cones	
	Congruence and Similarity		Applying Percentages	Solve equations with multiple	Calculate the volume of composite 3D	<u>Bearings</u>
	Use congruence in triangles	Surface Area of Cylinders	Use multipliers to	steps	shapes	Be able to measure a bearing
	Understand and use integer scale factors	Calculate the surface area of a	increase/decrease by a	Solve quadratics through	Solve problems involving volume of prisms	Use bearing and scales to construct maps
	Understand and use fractional scale factors	prism	percentage	factorising		Use angle theories to calculate bearings
	Use area and volume scale factors	Calculate the surface area of a	Understand how to find original	Solve inequalities	<u>Enlargements</u>	
		cylinder	amounts	Substitute numbers into complex	Be able to enlarge a given shape by scale	Standard form
		Calculate the surface area of 3D	Calculate simple interest	formulae	factors	Recognise when a number is in standard form
Knowledge &		composite shapes	Calculate compound interest	Change the subject of Scientific	Be able to enlarge a shape from a centre	Convert large and small numbers between
Skills			Inverse Proportion	formulae	point.	ordinary and standard form
		Types of Sequences	Use and draw direct proportion	Solve problems involving	Be able to describe enlargements including	Use standard form in calculations
		Recognise and generate	graphs	inequalities and formulae	centres of enlargement.	
		geometric sequences	Understand inverse proportion			
		Recognise and generate	Solve problems using inverse			
		quadratic sequences	proportion			
		Find the nth term of simple	Use and draw inverse			
		quadratic sequences	proportion graphs			
		Duther area Theorem				
		<ul><li>Pythagoras Theorem</li><li>Label right angles triangles</li></ul>				
		appropriately				
		Use Pythagoras to find the				
		hypotenuse				
		Use Pythagoras to find shorter				
		sides of triangles				
		Solve problems using Pythagoras				
		(3D)				
	Multiples Factors and Primes	Accuracy	Graphs, Equations and Gradients	Probability Diagrams	Scatter Graphs	Compound Measures
	Year 8	Year 8	Year 8	Year 8	Year 8	Year 8
	o Autumn 1	o Autumn 2	o Spring 2	o Summer 1	o Summer 1	o Autumn 1
	<ul> <li>Factors, multiples and primes</li> </ul>	<ul> <li>Estimation</li> </ul>	<ul> <li>Co-ordinates and</li> </ul>	<ul> <li>Frequency Trees and</li> </ul>	<ul> <li>Graphs and Charts</li> </ul>	<ul> <li>Direct Proportion</li> </ul>
			Graphs	Two Way Tables		Year 7
	Angles in Parallel Lines	Surface Area of Cylinders			<u>Volume</u>	o Spring 2
	• Year 8	• Year 8	Applying Percentages	Equations, inequalities and formulae	• Year 8	o Measures
	o Spring 2	o Autumn 2	• Year 8	• Year 8	o Autumn 2	
	<ul> <li>Angles in polygons</li> </ul>	o Circle Area	o Spring 1	o Autumn 1	o Circle Area	
		o Summer 2	Further Percentages	Algebra Functions and     Formulae	o Summer 2	
		o Surface Area of a Prism	Inverse Proportion	Formulae	o Volume	
	Congruence and Similarity	Types of Sequences	• Year 8	<ul><li>Autumn 2</li><li>Complex Linear</li></ul>		
	Year 8	Types of Sequences  • Year 8	<ul><li>Autumn 1</li><li>Direct Proportion</li></ul>	o Complex Linear Functions	Enlargements	Bearings
Links to prior	O Autumn 1	o Spring 1	O Direct Proportion	o Spring 1	• Year 8	• Year 9
learning	o Direct Proportion	o Nth Term		o Identities in Algebra	Summer 2	O Autumn 1
icarining	5 Bilect Floportion	J Will lettil		identifies in Algebra	o Transformations	Autum 1     Angles in Parallel Lines
		Pythagoras Theorem			o Summer 2	• Year 8
		• Year 9			Scale Diagrams	o Spring 2
		o Autumn 1				o Angles in Polygons
		<ul> <li>Factors, multiples and</li> </ul>				o Summer 2
		primes				<ul> <li>Scale Diagrams</li> </ul>
		• Year 7				
		1				Standard form
		o Spring 1			1	1
		<ul><li>Spring 1</li><li>Substitution</li></ul>				Year 8
						Year 8     O Autumn 1
		<ul><li>Substitution</li><li>Year 7</li><li>Spring 2</li></ul>				
		<ul><li>Substitution</li><li>Year 7</li><li>Spring 2</li><li>Measures</li></ul>				o Autumn 1
		<ul><li>Substitution</li><li>Year 7</li><li>Spring 2</li></ul>				<ul><li>Autumn 1</li><li>Factors, multiples and primes</li></ul>

		o Area and Perimeter				
Assessment	Unit Reviews These will be completed on a regular basis after a unit of work has been completed. End of Half Term Assessment An assessment based on the units covered during this half term	Unit Reviews These will be completed on a regular basis after a unit of work has been completed. End of Half Term Assessment An assessment based on the units covered during this half term	Unit Reviews These will be completed on a regular basis after a unit of work has been completed. End of Half Term Assessment An assessment based on the units covered during this half term	Unit Reviews These will be completed on a regular basis after a unit of work has been completed. End of Half Term Assessment An assessment based on the units covered during this half term	Unit Reviews These will be completed on a regular basis after a unit of work has been completed. End of Half Term Assessment An assessment based on the units covered during this half term	Unit Reviews These will be completed on a regular basis after a unit of work has been completed.
Home learning	Putitiples/Factors and Product of Primes Primes Multiples and Factors Prime Factorisation : Product of Primes Uses of Prime Factorisation Angles Straight Line Angles Vertically Opposite Angles Angles Around a Point Problems involving angle properties Ratio/Proportion Sharing with a Given Ratio Part of a Ratio to the Whole Ratio: Problem Solving Ratio: Two Ratios Ratio: Applied Problems Working with Fractions Four Operations with Fractions Multiplying with Whole Numbers and Fractions Dividing with Whole Numbers and Fractions Fraction of Amounts Reverse Fractions Applied Fractions Significant Figures and Estimation Rounding to Mixed Decimal Places Rounding to Mixed Decimal Places Rounding to Mixed Significant Figures Estimation Mixed Rounding problems Rounding to Appropriate Degrees of Accuracy Revision for Assessment Pupils will have a set of topics to revise and can produce a revision sheet for the assessment.	Circles  Naming the Parts of a Circle Circumference Area of a Circle: From Radius or Diameter Using the Area of a Circle to find the Radius or Diameter Areas of Part Circles Area of a Sector Area Area of Squares, Rectangles and Parallelograms Area of Triangles Area of Triangles Area of Composite Shapes: Adding Area Problem Solving Sequences and nth Term Linear Sequences: Finding the Term-to-Term Rule Linear Sequences: Using the nth Term 1 (Substitute) Linear Sequences: Finding the nth Term (Increasing) Linear Sequences: Using the nth Term (Decreasing) Linear Sequences: Using the nth Term 2 (Solve) Unusual Sequences Solving Equations: One Step (+ - x ÷) Solving Equations: Two Steps ax + b = c Solving Equations: Two Steps (x †) Solving Equations: Two Steps (Negative Unknown) Squares/Roots/Powers Squares Powers Square Roots Cube Roots Estimating Powers and Roots Similarity Similarity Similar Polygons: Finding the Scale Factor Similar Polygons: Missing Sides Similar Area Similar Volume Substitution Substitution Substitution into Expressions: One Term Two Terms Two Terms Incl. Squares	Types of sequences  Important Sequences: Squares, Cubes and Triangular Numbers  Important Sequences: Geometric  Important Sequences: Fibonacci  Quadratic Sequences: Using the nth Term  Drawing linear graphs  Midpoint of a Line Segment  Horizontal and Vertical Graphs  Other Important Linear Graphs  Plotting Straight Line Graphs: 4 Quadrants  Accuracy and bounds  Rounding to Appropriate Degrees of Accuracy  Mixed Rounding  Upper and Lower Bounds  Bounds: Error Intervals  Percentages  Finding Percentages 1: Integer Percentages < 100% (Calculator)  Finding Percentages 2: > 100% or Non-Integer Percentages (Calculator)  Percentage Change  Express One Amount as a Percentage of Another  Surface area  Surface Area of Cuboids  Surface Area of Prisms  Surface Area of Pyramids  Revision for Assessment  Pupils will have a set of topics to revise and can produce a revision sheet for the assessment.	Pythagoras: Finding the Hypotenuse Pythagoras: Finding a Short Side Pythagoras: Applied Questions Gradient and Intercept Plotting Straight Line Graphs: 4 Quadrants Finding the Gradient of a Line Segment Finding y = mx + c from a Gradient and a Point Finding y = mx + c from Two Points Finding y = mx + c from a Graph Ratio and Proportion Recipe Ratio: Find Amount of Ingredients Recipe Ratio: Maximum That Can Be Made Better Value Direct Proportion Percentage - compound interest Simple Interest Compound Interest Depreciation Reverse Percentage Solving Equations: Two Steps (Mixed Exercise) Solving Equations: (Unknown on both sides) Generating Equations from Words Revision for Assessment Pupils will have a set of topics to revise and can produce a revision sheet for the assessment.	Basic Probability Calculating Probability Mutually Exclusive Events Two Way Tables: Probability Listing Outcomes Relative Frequency Expected Frequency Cuadratics Expanding double brackets Factorising Quadratics Volume Volume of Cubes and Cuboids Volume of Prisms Inequalities Representing inequalities on a number line Stating values from an inequality Solving inequalities Venn Diagrams Reading Venn diagrams Drawing and completing Venn diagrams Probability from Venn diagrams Probability from Venn diagrams Revision for Assessment Pupils will have a set of topics to revise and can produce a revision sheet for the assessment.	Pread Diagrams Completing tree diagrams Drawing tree diagrams to represent events Probability from tree diagrams Transformations Drawing and describing: Rotations Reflections Translations Enlargements Compound Measures Calculating and using compound measures: Speed Density Pressure Angles and Scales Angle properties in parallel lines Map scales Converting scales Standard Form Converting between ordinary and standard form (large numbers) Converting between ordinary and standard form (small numbers) Revision for Assessment Pupils will have a set of topics to revise and can produce a revision sheet for the assessment.

		Substituting into a Formula     Revision for Assessment				
		Pupils will have a set of topics to revise and can produce a revision sheet for the assessment.				
Cultural Capital and extra- curricular opportunities	Artful Maths Club  Where geometry meets creativity. Pupils can learn to fold their way into the wonders of maths with Artful Maths Club.	Artful Maths Club Where geometry meets creativity. Pupils can learn to fold their way into the wonders of maths with Artful Maths Club.	Maths LIVE Conference  4-day residential trip to Disneyland Paris to attend the Maths LIVE conference. This is an opportunity for pupils to understand how skills in Mathematics can be applied to a wider range of career paths. Pupils also have an opportunity to investigate the maths skills embedded throughout the Disney parks.	Artful Maths Club  Where geometry meets creativity. Pupils can learn to fold their way into the wonders of maths with Artful Maths Club.	Artful Maths Club Where geometry meets creativity. Pupils can learn to fold their way into the wonders of maths with Artful Maths Club.	Artful Maths Club Where geometry meets creativity. Pupils can learn to fold their way into the wonders of maths with Artful Maths Club.
	Key Words	Key Words	Key Words	Key Words	Key Words	Key Words
Literacy	Multiples Factors and Primes Prime, Prime factor, Prime factorisation, Product, Venn diagram, Highest common factor, Lowest common multiple Angles in Parallel Lines Degrees, Right angle, acute angle, obtuse angle, reflex angle, vertically opposite, geometry, geometrical, Parallel, alternate angles, corresponding angles, Interior angle, exterior angle Congruence and Similarity Congruent, SAS, SSS, ASA, RHS, Similar, Similarity, Scaling, Scale factor, Scale drawing	Accuracy Truncate, Round, Minimum, Maximum, Interval, Decimal place, Significant figure, Upper Bound, Lower Bound, Inequality, Estimate Surface Area of Cylinders Prism, cylinder, Cross-section, pyramid, surface area, compound, composite, cuboid, triangular, edge, face, vertices Types of Sequences Term, Term-to-term rule, Position-to- term rule, nth term, generate, linear, quadratic, difference, Fibonacci sequence, Geometric Progression Pythagoras Theorem Hypotenuse, Pythagoras' theorem, right angle, triangle Famous Mathematicians Short reading and comprehension exercise through Microsoft Forms on 'Famous Mathematicians – Cardano'.	Graphs, Equations and Gradients Plot, Equation), Function, Formula, Linear, Coordinate plane, Gradient, y-intercept, Substitute, Quadratic Applying Percentages Percentage change, original amount, Multiplier, Compound interest, Simple interest, (Exponential) growth, decay	Inverse Proportion Proportion, Quantity, Integer, Ratio, Compare, comparison, Part, Unit, Proportional, Multiplier, Unitary method, Direct proportion, Inverse proportion Probability Diagrams Outcome, Event, Experiment, Combined experiment, Enumerate, Set, Venn diagram, equally likely outcomes, Theoretical probability, Random, Bias, Fairness, independent event, dependent event, Tree diagrams Equations, inequalities and formulae Change the subject, Algebra, Symbol, Expression, Variable, Substitute, Equation, Unknown, Enumerate, Operation, Solve, Solution, Brackets The Colosseum Short reading and comprehension exercise through Microsoft Forms on 'The Colosseum'.	Scatter Graphs Categorical data, Discrete data, Continuous data, Scatter graph, Bivariate data, Correlation, Positive correlation, Negative correlation, Line of best fit, Interpolate, Extrapolate, Trend, Causation Volume Prism, cylinder, Cross-section, pyramid, volume, compound, composite, cuboid, triangular, edge, face, vertices, cone Enlargements Similar, Similarity, Enlarge, enlargement, Scaling, Scale factor, Centre of enlargement, Object, Image	Compound Measures  Length, distance, Mass, weight, Volume, Capacity, Metre, centimetre, millimetre, Tonne, kilogram, gram, milligram, Litre, millilitre, Hour, minute, second, Inch, foot, yard, Pound, ounce, Pint, gallon, Direct proportion, Multiplier, Compound unit, Speed, Density, Population density, Pressure Bearings  Length, distance, Metre, centimetre, millimetre, Inch, foot, yard, multiplier, scale, construct, measure, convert, bearing  Standard form  Large, Small, Standard Form, Ordinary Form, Power, Indices, Significant
Numeracy	Scientific Calculator First and foremost, we always try and use our mental and written method when attempting a calculation. If a calculator is need then this needs to be a scientific calculator. This is a requirement, and pupils are expected to have their own calculator in school. Pupils need to know how to use a scientific calculator correctly and they are taught this in their Maths lessons.	Approach Pupils must be encouraged to always show their working out, regardless of whether they are using a calculator or not.	Vocabulary Mathematical vocabulary is precise and rigorously defined. It should be used carefully to avoid misinterpretation and confusion with the same similar words used elsewhere.	Estimation Errors are commonly made when students fail to check the reasonableness of their answer in the context of the question. Recognising that estimation is not just a guess, but rounding needs to be used.	Talk Through Problems Pupils encouraged to talk through their methods of working out (explain their thinking out loud) to help clarify understanding.	Break Down Word Problems Focus on reading questions carefully, underlining key facts, and planning step-by-step how to solve them.
	Multiples Factors and Primes	Accuracy	Graphs, Equations and Gradients	Inverse Proportion	Scatter Graphs	Compound Measures
Careers Information, Education, Advice and Guidance (CEIAG)	<ul> <li>Finding HCF and LCM from listing and/or Venn diagrams</li> <li>Business and computing: Cost effective problems</li> <li>Technology: Effective use of resources and waste management</li> <li>Prime factor decomposition</li> <li>ICT/Business/Computing: Cryptography and programming</li> <li>Where are these skills transferred to real life contexts?</li> <li>Any business setting: Business will use factors and multiples to optimise resources and minimise waste for cost effectiveness. This can also be used for timetabling purposes too</li> <li>Construction workers: When working with building materials, as above, they would need to minimise waste and correctly distribute resources</li> </ul>	Rounding, estimation and error intervals  Science: Rounding in calculations and measures. Using estimations to make predictions in experiments Geography: Using rounding and estimation when calculating percentage growths, losses, land space etc Business: Estimation of costings, resources, profits and losses Tech; Using rounding when working with lengths and materials. Estimation of materials/ingredients needed to plan for production	Graphs (Linear, Quadratic, Exponential, Reciprocal) Science: Linear equations formed in Physics from real life contexts can be plotted onto graphs and used for forecasting trends, solving problems and making predictions for experiments Business: Again, used for predictions, trends and forecasting Geography: Graphs used to compare and contrast data and information	Direct Proportion and Inverse     Proportion     Technology: When working with recipes, proportion is used for scaling up or down ingredients measures     Science: Speed, distance and time of vehicles. Distance of planets and sunlight     Where are these skills transferred to real life contexts?     Architecture: Architects and designers will need ratio and proportions when using scale drawings and creating designs in real life	Correlation and scatter graphs Geography: Using scatter graphs to plot two variables such as death rates, earthquakes, population changes etc. Correlation is used to recognise trends and patterns in data Science: Scatter graphs are used as above to plot two variables and compare using lines of best fit and correlation Where are these skills transferred to real life contexts? Economists conduct research and analyse trends on a wide range of economic phenomena, including prices, employment, production, inflation and business cycles. Scatter graphs help visually illustrate relationships between two economic phenomena, such as employment and	<ul> <li>Geography: Using standard units of measure to calculate distances, temperatures, river flows etc.</li> <li>Science: Calculating speed, distance and time, density, mass and volume, and pressure force and area in Physics. Applying limits of accuracy when calculating with compound measures</li> <li>Art: Using measurements in drawings for scale and proportionality. Converting between measurements when scaling</li> <li>Technology: Conversions between capacity and mass units when working with ingredients. Working with standard units of length in textiles and resistant materials</li> </ul>

- Event planners: When planning events with large seating areas, distribution of rows, chairs etc would need to be done efficiently using HCF and LCM
- Traffic systems: HCF and LCM would need to be used when planning the traffic light systems in a town so they are in sync at certain times

### **Angles in Parallel Lines**

### Angle and shape properties, Parallel lines

- Art: Shape properties will be widely used in drawings, constructions and creating 3D drawings. Pupils in art will need to be able to measure and draw angles as well as calculate using angle facts
- Technology: Shape properties are needed in design projects especially in resistant materials and textiles
- Science: Angles are used in Science when working with elevations and positionings

### Where are these skills transferred to real life contexts?

- Construction workers: Construction workers and builders need to accurately work with angles and dimensions to ensure the safety of the designs
- Interior designers: Need to know properties of room spaces to ensure maximum efficient use of space
- Animation and games design: Creation of objects and people in games rely on properties of shapes and angles
- Architect: The building of offices, homes and buildings requires extensive knowledge of shapes (of rooms), to ensure well designed and manufactured spaces

### **Congruence and Similarity**

# Scale diagrams, Congruence, Similarity, Constructions and Loci

- Technology: When creating and designing scale diagrams are used for the initial planning phase
- Geography: Maps are scale diagrams of larger scale places (countries, continents etc)
- Art: Scale drawings are required for design and creating of projects. The use of congruence and similarity is used for some drawings

### Where are these skills transferred to real life contexts?

- Architects/interior designers: Scale drawings are used in the planning and design of houses, offices and any other areas
- Builders/Plumbers/Electricians: Will need to use scale diagrams and floor plans to ensure safety in building, plumbing and design
- Athletes: Loci is used to calculate the best path to take for the shortest possible distances in running
- Phone networking: Pylons need to be placed in exact locations to ensure efficient signalling to certain areas
- Farmers: When planning the dimensions of their land in regards to pens, fencing and animal space, loci is needed

# Where are these skills transferred to real life contexts?

- Business: The ability to estimate the time, resources and money needed to complete a project is necessary in almost any career. Teachers, for example, distribute supplies based upon their predictions of student use, managers use these skills for creating yearly budgets, and most businesses depend on this ability for cost effectiveness
- Surface Area of Cylinders
- Types of Sequences
- Linear, Quadratic, Geometric and Fibonacci
- Science: Geometric sequences can be used for growth and decay including bacteria and infection growth
- Geography: Geometric sequences can be used to determine population growth
- Drama: Set production and plays follow sequences
- Business: Arithmetic sequences can be used to make estimations about how something will change in the future

## Where are these skills transferred to real life contexts?

- Business/Demographics: The ability to forecast growth and population using sequencing including pricing and profits
- Farmers/agriculture: Need sequencing to predict crop growth and corresponding revenue growth
- Food production/factory production: Preparation of food/goods need to be followed in a sequenced order. Machinery will need to be programmed to follow a certain sequence
- Theatre production/Media: Plays and production follow sequencing for running orders

### **Pythagoras Theorem**

Although the topic of Pythagoras'
Theorem is not explicitly taught in
other subjects, the skills required are
transferrable.

- Science: Use of large and small numbers represented in index form. Substitution into formulae used which included powers and roots
- Business and Computing: Substitution into formulae, using powers and roots

# Where are these skills transferred to real life contexts?

 Construction worker and management: Determining

# Where are these skills transferred to real life contexts?

- Politics: Used for election votes, predictions and trends.
   The government use graphs to support their data on the economy and health (eg covid).

   NHS: Graphs will be used to
- NHS: Graphs will be used to compare and make predictions from regarding treatments, for monitoring purposes for example heart rates, blood sugar levels etc.
- Any business setting: One of the most helpful ways to apply linear equations in everyday life is to make predictions about what will happen in the future. While real world factors certainly impact how accurate predictions are, they can be a good indication of what to expect in the future. Linear equations are a tool that make this possible and is made even clearer by representing this information on a graph
- Applying Percentages
- Geography: Calculating percentage increase and decreases in populations, GDP, or any other data. Percentages can be used to show the percentage of land compared to water in certain areas
   Population density is expressed as a percentage
- Science: Calculating percentage quantities of amounts to compare and analyse data
- Business: Profit/loss, percentage changes in business trends. Interest rates, and calculating interest on loans
- Art: Proportion of shapes, diagrams for shading.
   Percentage of paper/space used for drawings.
   Where are these skills transferred to real life contexts?
   Any business setting: Workers
- within a business, but more importantly managers and owners, need to be able to calculate percentages of amounts, percentage increase and decreases and percentage changes. They use these skills to efficiently forecast trends, work out what resources they need to buy, work out prices, calculate profit and losses and much more
- Retail: Retailers use percentages in promotions and

- Construction: Will need to work with scale ratios and proportion in the same way as above
- Chefs/Bakers: Any profession which works with ingredients will need to use ratio and proportion when working with ingredients. Specifically, when baking/cooking on a large scale
- Pusiness: Most businesses which require purchases of stock (clothes, ingredients etc), will need to use proportion when calculating 'best buys.

  Businesses need to calculate the best possible price of buying stock based upon the units they are purchasing when buying in bulk
- Physicists: When working with acceleration and velocity, inverse proportion is used

### **Probability Diagrams**

- Geography: Using probability in weather forecasting
- Science: In any experiment to predict the chance of an outcome. In Biology probability is used for predictions of genetics and births
- PE: Making predictions on sporting events using previous data and analysis

# Where are these skills transferred to real life contexts?

- Engineering: requires probability analysis. Engineers must calculate the probability of such things as a heavy gust of wind or a car's front suspension hitting a pothole on an average day
- Computer programmers sharpen their products by using statistics
- Biologists and medical experts use probabilities to better understand sophisticated mechanisms within the human body and to develop drugs
- Physicists deal with uncertainty as they delve into the realm of sub-atomic particles and model these interactions by using probability models
- Weather forecasting: Probability is needed to foresee the chance or rain/sun etc.
- Economics and business:
   Economists use probability as a tool to analyse economic competition and phenomena such as bargaining, voting theory, auction, mechanism design.
   Executives, investors, and managers in the business world use probability for investments, launching of new products, or entering a new business

- output, inflation and retail sales, and taxes and economic growth
- Market research analyst Market research involves conducting consumer surveys and focus groups, as well as gathering and analysing data on prices, sales and distribution. Often researchers analyse data on past sales to project future revenues.
   Market research often involves writing reports that include statistical charts that report past sales and predict future sales

### <u>Volume</u>

- Geography: Calculating space of territories, land and sea
- Science: Volume is used across a lot of the Physics curriculum with regards to density and mass of objects. Chemistry also uses volumes for substances, and volume of gases. In Biology, Volume is calculated for cells
- Art: 3D shapes are commonly drawn and volume is calculated from these. In Art they may need to create 3D objects linked to scale drawings and therefore will need to scale the volume
- DT: When creating 3D models in textiles/RM, pupils will need to consider the volume of the 3D shape

## Where are these skills transferred to real life contexts?

- Gardeners/landscaping/construction: They will need to consider the volume of spaces, land, or buildings when purchasing materials, pricing, and costing
- Medicine: Any NHS worker who needs to administer drugs/medication needs to be aware of the volume of the substance to be given linked to the rate at which It is administered
- Product packaging/manufacturing: Product packaging needs to be made to fit the quantity of the item inside and therefore volume needs to be accurately measured to minimise waste.
- Transportation of goods: The volume of space inside the lorry/boat/van would need to be sufficient to carry certain amounts of goods

### **Enlargements**

- Technology: When creating and designing, scale diagrams and enlargements are used for the initial planning phase
- Geography: Maps are scale diagrams of larger scale places (countries, continents etc) and therefore enlargements and scale factors are used
- Art: Scale drawings are required for design and creating of projects. The use of enlargements and scale factors are often

# Where are these skills transferred to real life contexts?

- Architects/interior designers: Scale drawings are used in the planning and design of houses, offices and any other areas
- Builders/Plumbers/Electricians: Will need to use scale diagrams and floor plans to ensure safety in building, plumbing and design

- PE: Working with speed, distance and time in athletics. Conversions between standard units of length on throws and jumps
- Business: Using rates of pay and pricing as a measure

## Where are these skills transferred to real life contexts?

- Journey planners: Businesses which may work in haulage or transport need to work with speed distance and time to ensure efficient, scheduled deliveries and services
- Town planners/Architects: Need to work with scale, conversion of measures and compound measures when planning building work
- Athletics: Competitive sports such as athletics will use speed distance and time as a measure to calculate standings. Measurements may often need to be converted
- Construction and builders: Need to work with pressure and density when building lifts, platforms or any other elevated surfaces to ensure safety

#### **Bearings**

- Science: Standard form is used when calculating large distances (eg between planets), sizes, or working with speed of light in Physics
- In Chemistry standard form is used for small measurements such as the distance between sub-atomic particles. In Biology, the size of bacteria may be measured in standard form due to the small size

### Where are these skills transferred to real life contexts?

- Astronomer: Working with planets requires the use of standard form from measuring distances to mass
- Scientists/Astrophysicists/Chemists: Large and small values ranging from speed of light to atomic particles
- Engineers: Engineers may use standard form when calculating distances, lengths and mass of materials

### **Standard form**

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- In Chemistry standard form is used for small measurements such as the distance between sub-atomic particles. In Biology, the size of bacteria may be measured in standard form due to the small size

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the legither or approximate content of the content					1	
The applies from territorization of collections and was all mail to collect and was all plants and to collect						
Integration from the common control co			businesses above	politicians use probability to		
Collect Continues and Program Collection Col			Banks: Banks work with	analyse any situation of conflict		
merchanic in which in the most many properties of the most many of the mos		bridges, buildings, theme park	percentages when calculating	between individuals, companies,		
pecide in this is not control to be dismail.  In including a control of the contr		rollercoasters and much more	interest rates on savings, loans,	states, and political parties. It is		
will interactions are writed to all subsequents of the property of the propert		Agriculture: Any job where	mortgages and working with	also used in war strategies,		
and measured, Working directly with Econocytics agramment and selection from selecting in the control of the selection of the		precise lines need to be drawn	inflation	political voting, and political		
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				their head without drawing a line graph.  • Event planners: A party planner has a limited budget for an upcoming event. They will need to figure out how much it will cost the client to rent a space and pay per person for meals. A linear equation can be constructed to show the total cost, expressed for any number of people in attendance  • Any business setting: One of the most helpful ways to apply linear equations in everyday life is to make predictions about what will happen in the future. While real world factors certainly impact how accurate predictions are, they can be a good indication of what to expect in the future. Linear equations are a tool that make this possible		
Spirituality	Pythagorean Mysticism: Numbers are the essence of all things	Fibonacci sequences can be seen as a natural blueprint.		Mathematical infinity: Symbol of the infinite nature of the divine or the soul.	Geometric shapes with symbolic and sacred meanings.	Zero (0) and Emptiness: In Eastern philosophy (Buddhism, Taoism), zero resonates with the void, emptiness, and potential. In Hinduism, linked to the concept of <b>Shunyata</b>
How can parents support the curriculum?	Talk with your child about what they are learning about in Maths  Be positive about Maths. Try not to say things like 'I can't do Maths' or 'I hated Maths at school' - your child may start to think like that themselves  Emphasize effort over innate talent. Praise your child's hard work rather than solely focussing on whether they get the right answer  Celebrate mistakes as learning opportunities. Frame errors as chances to learn and improve, rather than as failures  Be patient and encouraging. Take it slow, provide support, and celebrate even small successes	Literacy and Oracy  Discus the key words, that can be found in the 'Literacy' section of this document, that are associated with units of work covered throughout the corresponding half-term  Can they pronounce these words correctly?  Can they spell them correctly?  Can they explain what the mathematical meaning of these words is?  Can they give an example to show how the words are relevant to what they are learning about?	Point out Maths in the Real World  Refer to the information given in the 'CEIAG' sections of this document to help.  Is your child aware of the different subjects in which they might use some of the same key skills as listed in the 'Knowledge & Skills' sections of this document?  Is your child aware of, and maybe interested in, some of the careers in which they might use some of the same key skills as listed in the 'Knowledge & Skills' sections of this document?	Revision and Preparation for End of Year Assessments  Support your child in creating a revision schedule to help them prepare for the end of year assessments  Refer to the 'Knowledge & Skills' sections, and the 'Links to prior learnings sections of this document, to help populate the schedule  Monitor your child to ensure that they are developing good habits by sticking to the agreed schedule that they have created  We recommend a minimum of 2 hours revising and practising their Maths skills, spread out over the	Equipment Check that your child has the relevant equipment in readiness for units of work coming up next half-term, and that they are bringing it to school with them.  Pencils Sharpener Eraser Ruler Protractor Please note that black pens, a scientific calculator, a green pen, a purple pen and a mini-whiteboard pen, will still be required.	Summer Home Learning  All students will be provided with a bespoke list of topics for which they need to work on to progress and improve in Mathematics  Their performance in the end of year exams will help to inform this  The list will be provided before they break for the Summer  Monitor your child's progress in working through their list so that they may make an optimum start to studying Maths in the next academic year

course of each week