



# Student Learning Journey

**Subject: Art Year 8 Architecture**

## Previously you have learnt



You will have explored two different rotations of Art and Design in year 7. Within both rotations you will have explored a wide selection of artists including, Yayoi Kusama, David Hockney and Andre Derain in the Colour and Pattern rotation and Antoni Gaudi and Steven Wiltshire in your second rotation. You will have explored media processes including, printmaking, collage, clay, colour theory, tonal drawing, watercolour and poster paint.

## In this unit you will learn



The focus of your project in year 8 is Architecture. You will continue to explore a wide selection of media and creative processes, analysing a collection of visually exciting artists. You will learn about collage, modern art concepts, mixed media and a selection of drawing techniques. All skills learnt this project will aim to embed your prior knowledge gained over previous years, allowing you opportunities to creatively express yourself and your own ideas. You will explore architecture artist from both modern times and in ancient cultures widening your understanding and appreciation of the world around us.

## Key Vocabulary and Terminology



Tier 2: nature, form, observe

Tier 3: architecture, collage, composition

## Further Learning



V&A Exhibition links : [V&A Architecture](#)

Museum of architecture: [Architecture exhibitions](#)

## Hatton Character Qualities

<b>Resilience</b>	Open Mindedness	Creativity	Responsibility	Empathy
Self-Regulation	<b>Courage</b>	Commitment	<b>Team Work</b>	Leadership
Determination	<b>Curiosity</b>	Verbal Confidence	Social Intelligence	Citizenship

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# Student Learning Journey

**Subject: Computer Science Year 8 Introduction to Computer Systems**

## Previously you have learnt



You will have had experience using many different types of computer hardware in lesson and will understand how to use basic input devices such keyboard and mice are needed to interact with a computer.

## In this unit you will learn



In this unit, you will go into the core elements of the computer. We will look at the architecture of a processor, how it interacts with RAM and what make a "general purpose computer" using the stored program concept. We will also look at the importance primary and secondary storage in a modern computer.

## Key Vocabulary and Terminology



Tier 2 : Evaluate, Analyse, Context, Apply, Link, Investigate, Describe, Explain, Research, Discuss, Expand, Explore

Tier 3: CPU, clock speed, cache size, cores, , RAM, ROM, volatile, non-volatile, secondary storage, optical, magnetic, solid state, drive, speed, portability, durability, reliability, cost, storage device

## Further Learning



[Hardware and software - KS3 Computer Science - BBC Bitesize](#)

## Hatton Character Qualities

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# Student Learning Journey

**Subject: Computer Science Year 8 Logic**

## Previously you have learnt



how computers use binary numbers to represent information and how everything has to be converted into binary for the computer to be able to process it.

## In this unit you will learn



how a computer would use logic gates that manipulate the 1s and 0s it receives as input to produce decisions and outputs. You will be using algebra and algebraic expressions to help make decisions.

## Key Vocabulary and Terminology



Tier 2: and, or, not, input, output

Tier 3: Logic, gate, Boolean, truth table

## Further Learning



[BCC Bitesize - What is Boolean logic?](#)

[What is a logic gate?](#)

[Types of logic gates](#)

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# Student Learning Journey

**Subject: Dance Year 8 Appreciation and Choreography**

## Previously you have learnt



In your last rotation you learnt how to develop performance skills and techniques when exploring a professional works.

## In this unit you will learn



In this unit you will learn how to choreograph using a stimulus and creating a dance through choreographic devices and creativity.

You will be working in a group and taking on the role of both dancer and choreographer. The skills a choreographer needs when teaching and creating.

## Key Vocabulary and Terminology



**Tier 2:** choreograph, appreciation

**Tier 3:** action (travel, turn, elevation, gesture, stillness, use of different body parts, floor work, transfer of weight). Dynamics (fast/slow, sudden/sustained, acceleration/deceleration, strong/light, direct/indirect, flowing/abrupt). Spatial (pathways, levels, directions, size of movement, patterns, spatial design)

## Further Learning



[Motif development GCSE Dance AQA - YouTube](#) – This video is explaining the advanced choreographic device of motif development.

[How to develop movements from a stimulus - YouTube](#) – This video is explaining a stimulus and how they are used in dance.

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# Student Learning Journey

**Subject: Food and Nutrition Year 8 Cooking Skills and Healthy Eating**

## Previously you have learnt



A variety of creative and practical activities and have gained knowledge, understanding and the skills needed to engage in the iterative process of designing and making. You have also have gained subject knowledge in Science and PSHE about healthy eating and healthy lifestyles. In Mathematics you will have learnt to use weights and measurements which will prepare you well when following recipes.

## In this unit you will learn



How to cook and apply the principles of nutrition and healthy eating. You will learn about the eat-well guide and how to maintain a healthy diet as well as the function of different ingredients. You will make a variety of dishes following a recipe to develop your practical cooking skills and you will practice hygiene and safety in the kitchen when preparing and cooking a variety of foods.

## Key Vocabulary and Terminology



Tier 2: recognise, explain, select, analyse, evaluate

Tier 3: gluten, yeast, nutrition, diet, hazard, risk assessment, eat-well guide

## Further Learning



Oak National: [Health and Safety – Preparation and Hygiene](#)

Oak National: [Recipe Development](#)

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# Student Learning Journey

**Subject: Design Technology Year 8 Developing Practical skills (Product Design)**

## Previously you have learnt



In Year 7 you marked out, cut and finished 3mm acrylic using a range of workshop tools, while learning about health and safety in a workshop environment.

You also learnt how to use 2D design (CAD) to draw out a range of simple shapes and designs and were introduced to the laser cutter (CAM) to manufacture simple projects.

## In this unit you will learn



In this unit you will develop your skills using a range of tools. You will also learn how to use the belt sander and pillar drill safely. You will learn about simple circuits and how to join electronic components through soldering. You will learn different methods of shaping and moulding plastics focusing on achieving a high-quality finish in your work.

## Key Vocabulary and Terminology



Tier 2: analyse, create, explain, describe, design

Tier 3: soldering, drilling, components, circuit, strip-heater, orthographic projection

## Further Learning



BBC Teach Design and Technology [Materials and Processing](#)

Technology Student [Introduction to Materials Research](#)

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# Student Learning Journey

**Subject: Design Technology Year 8 Sustainability and Design skills**

## Previously you have learnt



During your DT lessons in year 7 you completed a range of foundation units, including an introduction to technical skills in Graphics, Textiles, Product Design and Food and Nutrition. You researched the work of significant designers and developed your verbal confidence by presenting your findings. You developed your knowledge of materials and their properties and how this effects their use. As designers you were introduced to working with a brief and designing for a client and well as idea generation strategies.

## In this unit you will learn



In this unit, you will build on the knowledge you gained in year 7 by exploring the iterative design process in more detail. You will explore user centred design and deepen your analytical skills when examining existing products. You will widen your design development skills, using modelling to explore ideas in 3D. You will gain a greater understanding of the role of DT in society and be introduce to the concept of sustainable design and the social and moral responsibilities of a designer.

## Key Vocabulary and Terminology



Tier 2: generate, develop, refine, create, analyse

Tier 3: client, target market, design brief, iterative design, model, sustainable, lifecycle, 6Rs, Built in obsolescence.

## Further Learning



Plastic Ocean [How We Can Keep Plastics Out of Our Ocean | National Geographic \(youtube.com\)](https://www.youtube.com/watch?v=...)

BBC Earth [Can fashion be sustainable?](https://www.youtube.com/watch?v=...)

Circular economy [How can we solve our waste issue with the Circular Economy? - spunout](https://www.youtube.com/watch?v=...)

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# Student Learning Journey

**Subject: Design Technology Year 8 Developing Textiles Skills**

## Previously you have learnt



In year 7 you have explored a range of traditional textile techniques from around the world as well as the work of contemporary textile artists such as Liz Payne. You have developed your practical skills, learning how to create repeating patterns using block printing and stencilling as well as a range of hand embroidery stitches.

## In this unit you will learn



In this unit you will develop your technical skills and accuracy through use of the sewing machine. A large emphasis will be placed on safe working practices, time management and quality control. You will also look at industrial processes and careers in the textiles industry. You will learn how to read patterns, produce technical drawings and join and finish materials to a high standard.

## Key Vocabulary and Terminology



Tier 2: Analyse, design, create, explain, identify, accuracy

Tier 3: Fibre, resit dye, grainline, seam

## Further Learning



V&A Museum [Explore The Collections \(vam.ac.uk\)](http://vam.ac.uk)

Hobbycraft Tutorials [Sewing Different Seams Tutorial | Get Started in Sewing](#)

Scene360 [8 Strangely Fascinating and Innovative Fashion Designers](#)

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# Student Learning Journey

**Subject: Drama Year 8 Rotation 2: The Hunger Games – Exploring Characterisation**

## Previously you have learnt



How to use drama techniques to explore the theme of Peer Pressure and Anti-Social Behaviour.  
You explored a variety of characters and had an opportunity to create your own monologue for performance.

## In this unit you will learn



How to use a range of characterisation and physical theatre techniques to explore the narrative of *The Hunger Games*.

You will consider the portrayal of characters in a creative and energetic way, using exciting physical storytelling techniques and staging conventions– such as stage combat and split-staging – and apply the techniques of innovative theatre practitioners *Frantic Assembly*.

## Key Vocabulary and Terminology



**Tier 2:** Characterisation, duologue, Voice, Eye Contact, Body Language, Movement, Facial Expression, Gesture, Hot seating

**Tier 3:** Stimulus, split stage, tableaux, stage combat, pitch, pace, pause, volume, intonation, tone, emphasis, transition, body propping, physical theatre, proxemics, slow motion, archetype, direct address, conscience alley

## Further Learning



[Physical theatre techniques - Physical theatre - GCSE Drama Revision - BBC Bitesize](#)

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# Student Learning Journey

**Subject: English, Year 8, Society and the Individual**

## Previously you have learnt



So far in year 8 you have explored different power dynamics between characters such as Prospero, Ariel and Miranda. You have also spent time understanding different historical contexts and how they affect the meaning of the stories we are reading such as Victorian context and Jacobean context.

## In this unit you will learn



You will be exploring the theme of Society and Individual. You will begin by reading the book *Now is the Time for Running* where you explore how two brothers fight for freedom against a troubling society. You will then read the novella *Animal Farm*, an allegorical story, based around the context of the Russian Revolution. Here, you will explore power dynamics in a larger society. Alongside this you will consider key issues in our own society and practise writing articles sharing your opinion on these key issues. You will be consolidating your grammar skills as you are writing.

## Key Vocabulary and Terminology



**Tier 2:** Surveillance, Hierarchy, Revolt, Rebellion, Coercion, Reform and Propaganda

**Tier 3:** Allegorical, Communism, Capitalism, Soviet, Fable and Metaphor

## Further Learning



[Animal Farm | Summary & Analysis | George Orwell - YouTube](#)

[The Russian Revolution - OverSimplified \(Part 1\) - YouTube](#)

[The Russian Revolution - OverSimplified \(Part 2\) - YouTube](#)

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# Student Learning Journey

**Subject: History Year 8 Human Rights in America and Britain**

## Previously you have learnt



About the African Kingdoms and their advanced civilisations as seen in the Kingdom of Benin and Mali. You compared the issues of the British Empire, in these Kingdoms as well as India. You concluded by assessing the impact, largely negative, that the British Empire had around the world and why sometimes we need to face and apologise for our past actions.

## In this unit you will learn



About human rights movements in America and Britain. Comparing and contrasting the issues, struggles and events for people of colour across America and women fighting for their rights in Britain. You will get to understand the controversial laws, the ongoing stigmas and meet significant individuals who despite their differences, can also be compared after their fights for their rights.

## Key Vocabulary and Terminology



### Tier 2

Segregation    separation    protest    civil war    marriage    democracy

### Tier 3

Jim Crow Laws    Lynching    boycott    suffragette    suffragist

## Further Learning



[Civil Rights campaigns - Civil rights campaigns 1945 to 1965 - National 4 History Revision - BBC Bitesize](#)

[The Suffragette Movement - BBC Bitesize](#)

[A history of human rights in Britain | Equality and Human Rights Commission](#)

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# Student Learning Journey

**Subject: Term 6, Life Skills, Year 8 Online Safety**

## Previously you have learnt



In Year 7, you cover relationships with peers and families as well as consent and bullying. You focus on positive relationships and how to report any issues you have in and out of school. This year you have had lessons which focused on emotional wellbeing, careers, online safety and human rights. You have learnt about discrimination, your own identity as well as how others see themselves and safe relationships. You have covered Prevent and radicalisation as well as discrimination and the effects of this on our mental health.

## In this unit you will learn



You will cover body image and the impact of social media on our own view of ourselves. There will be lessons focusing on online grooming, cyberbullying and sharing images on the internet. You will also focus on Media reliability and gambling hooks on social media.

## Key Vocabulary and Terminology



**Tier 2:** Discuss, identify, think pair share, bias, reliability.

**Tier 3:** Groomer, social media, influencer, bullying, cyberbullying, blackmail, sexting, harassment, nudes, nude selfies, explicit images, online, consent, social media, gambling, hook, regulate.

## Further Learning



<https://www.bbc.co.uk/news/topics/cjxv13v27dyt>

<https://www.thinkuknow.co.uk/>

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# Student Learning Journey

**Subject: Mathematics Year 8 Number System**

## Previously you have learnt



To consolidate your learning of number from primary school to deepen your understanding and develop it further through the use of reasoning and problem solving. You have learnt how to express a number as a product of primes and use a calculator effectively.

## In this unit you will learn



To use the prime factor decomposition of numbers to derive associated facts, find the highest common factor and lowest common multiple. You will consolidate your learning of number and apply it to financial contexts.

## Key Vocabulary and Terminology



Tier 2: order, estimate, multiple, factor, ascending, descending, product, operations, compare, statement, balance, finance

Tier 3: integer, decimal, prime, hundred, thousand, million, multiplication, division

## Further Learning



[Largest Product, NRich Puzzle](#)

[Gabriel's Problem, NRich Puzzle](#)

[American Billions, NRich Puzzle](#)

[UKMT Maths Challenge Junior](#) questions are a great source to deepen your understanding.

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# Student Learning Journey

**Subject: Mathematics Year 8 Directed Numbers**

## Previously you have learnt



In Primary School to recognise numbers below zero and link to real life contexts, compare and order negative numbers and count forwards and backwards through zero. In Year 7 you deepened your understanding on adding, subtracting and multiplying directed numbers via pictorial and abstract contexts.

## In this unit you will learn



To consolidate your understanding on adding, subtracting and multiplying directed numbers via pictorial and abstract contexts and solve complex calculations involving directed numbers and interleaving order of operations.

## Key Vocabulary and Terminology



Tier 2: Order, compare, positive, negative, calculate, patterns, greater than, less than, temperature

Tier 3: Addition, subtraction, multiplication, division, directed number, order of operation, square, square root

## Further Learning



[Practice Makes Perfect 2, Puzzle](#)

[Radiating Directed Numbers, Puzzle](#)

[UKMT Maths Challenge Junior](#) questions are a great source to deepen your understanding.

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# Student Learning Journey

**Subject: Mathematics Year 8 Fractions & Percentages**

## Previously you have learnt



To fluently perform addition, subtraction and multiplication with mixed numbers and to increase/decrease by a fractional amount. You have learnt how to articulate the definition of percentages, how to represent them using diagrams and find a percentage of an amount

## In this unit you will learn



To fluently perform all operations with mixed numbers, combining them to include the order of operations. You will learn to calculate a percentage change and use multipliers to calculate percentages, including increases and decreases.

## Key Vocabulary and Terminology



Tier 2: subtract, quantity, express, multiples, compare, profit, depreciation

Tier 3: represent, convert, denominator, numerator, improper, multiplier, percentage

## Further Learning



[Peaches Today, Peaches Tomorrow.. NRich](#)  
[Terminating or Not? NRich](#)

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# Student Learning Journey

**Subject: Mathematics Year 8 Algebraic Notation**

## Previously you have learnt



To understand the difference between an expression, equation, formula, term, function and identity. Use and interpret algebraic notation leading to simplifying and manipulating algebraic expressions. This will then be extended to substituting in values in order to evaluate expressions. You will also learn how to multiply a single term over a bracket.

## In this unit you will learn



To use index notation and apply basic index laws. This will be extending into multiplying a single term over a bracket and collect like-terms, multiplying two brackets together and simplify, all whilst including the use of index laws. You will also learn how to factorise algebraic expressions by taking out single term common factors, as well as factorising a quadratic expression.

## Key Vocabulary and Terminology



Tier 2: interpret, evaluate, notation, equivalence

Tier 3: expression, equation, formula, term, function, identity, coefficients, brackets, simplify, manipulate, expressions, addition, subtraction, multiply, divide, integers, formulae, substitute

## Further Learning



The [UKMT Maths Challenge](#) questions are a great source to deepen the understanding of the above topics.

## Hatton Character Qualities

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# Student Learning Journey

**Subject: Mathematics Year 8 2D/3D Shapes**

## Previously you have learnt



In primary school you will have converted between metric units, for example, 1cm = 10mm, 1m = 100cm.  
You will also have converted some imperial units, for example, 1 foot = 12 inches, 1 pound = 16 ounces, 1 stone = 14 pounds, 1 gallon is equal to 8 pints

## In this unit you will learn



To record estimates and readings from scales to a suitable degree of accuracy, including use of units of measure, including both metric and imperial. You will estimate, calculate and solve problems in everyday contexts involving perimeter and area for specific polygons. You will work with 2-D & 3-D shapes, recognise their properties, and be able to describe them in words and by drawing. You will be able calculate the volume and surface area of cubes and cuboids, and convert between their units.

## Key Vocabulary and Terminology



Tier 2: Estimate, scales, area, shaded, volume, measures, metric, record, units, calculate, context, accuracy, imperial, regular, abbreviations, triangle, trapezium, recognise,  
Tier 3: formulae, fraction, perimeter, polygons, vertices, surface area

## Further Learning



[NRich Short Problems, Perimeter, Area and Volume](#)  
[NRich Short Problems, 3D Shapes](#)  
[NRich Cuboid Challenge](#)  
[NRich Can they be equal Problem](#)

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# Student Learning Journey

**Subject: Mathematics Year 8 Angle Properties**

## Previously you have learnt



In primary school to draw and measure lines and angles accurately. Understand the notation used for equal angles and lines and applying it to properties of triangles and quadrilaterals. You will have also learnt in Year 7 to describe, sketch and accurately draw using conventional terms and notations. Classify quadrilaterals and triangles by knowing their properties including lines of symmetry and rotational symmetry

## In this unit you will learn



To extend your knowledge to derive and apply angle facts including angles in parallel lines. You will find the interior and exterior angles of polygons and solve problems involving angle properties. You will also learn how to form and solve equations using angle facts.

## Key Vocabulary and Terminology



Tier 2: Estimate, measures, calculate, accuracy, regular, triangle, recognise, parallel, derive, adjacent, classify, interior, exterior

Tier 3: polygons, vertices, perpendicular, rotational symmetry, quadrilateral, alternate angles, corresponding angles, co-interior angles, transversal

## Further Learning



[Don Steward Tangram Activity](#)

[Open Middle, Interior and Exterior Angles](#)

[Oak National Academy Lessons](#)

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# Student Learning Journey

**Subject: Mathematics Year 8 Algebraic Equations**

## Previously you have learnt



In Year 7 to construct and solve simple linear equations using inverse operations.

## In this unit you will learn



To construct and solve complex linear equations, including variables on both sides of the equations. You will learn to interleave your knowledge of angles facts and perimeter/area of 2D shapes to solve complex equations. You will also learn to change the subject of a formula and it's applications in other subjects.

## Key Vocabulary and Terminology



Tier 2: construct, solve, addition, subtraction, variable

Tier 3: equation, inverse, multiplication, division, coefficient, formula

## Further Learning



[Open Middle, 'solving one step, positive and negative solutions'](#)

[Don Steward, challenging solving equations with variable on one side](#)

[Oak National Academy Lessons](#)

[UKMT Maths Challenge Junior](#) questions are a great source to deepen your understanding.

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# Student Learning Journey

**Subject: Mathematics Year 8 Ratio and Proportion**

## Previously you have learnt



In Year 7 to read, write and interpret ratios including the relationship between ratios and fractions. You learnt how to write and use ratios in unitary form and share quantities in a given ratio. You have also learnt to solve problems involving direct proportion such as best buy problems.

## In this unit you will learn



To solve ratio problems involving being given the difference, finding the whole or other part(s). You will also learn to solve problems involving direct proportion such as exchange rates, recipe problems and extend into solving inverse proportion problems.

## Key Vocabulary and Terminology



Tier 2: simplify, quantity, express, equivalent, part, whole, difference, exchange, inverse

Tier 3: ratio, unitary form, proportion, fraction, scale factor

## Further Learning



[Don Steward, What's the question](#)

[Dr Frost, Ratio and Proportion Problems](#)

[Oak National Academy Lessons](#)

[UKMT Maths Challenge Junior](#) questions are a great source to deepen your understanding.

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# Student Learning Journey

**Subject: Mathematics Year 8 Sequences**

## Previously you have learnt



In Year 7 to describe and continue pictorial, fractional and decimal sequences. Understand key vocabulary such as position and term of a sequence. You have learnt to generate and describe integer sequences, using the term to term rule and the position to term rule.

## In this unit you will learn



To explore and identify different types of sequences such as Fibonacci, Geometric, Arithmetic and Quadratic. You will learn to determine whether a term is in a sequence and justify your reasoning.

## Key Vocabulary and Terminology



Tier 2: generate, describe, represent, pictorial, sequence, determine

Tier 3: linear, integer, term to term, position to term, triangular, square, odd, even, quadratic, arithmetic, Fibonacci, geometric

## Further Learning



[Nth Term Overlap, Don Steward](#)

[Nth Term Cupcakes, Don Steward](#)

[Oak National Academy Lessons](#)

[UKMT Maths Challenge Junior](#) questions are a great source to deepen your understanding.

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# Student Learning Journey

**Subject: Mathematics Year 8 Linear Graphs**

## Previously you have learnt



In Year 7 to extend your knowledge of coordinate to solve geometry problems. Identify and draw lines that are parallel to the axes. You will have learnt to recognise lines in the form  $y = kx$ , explore the gradient in  $y = kx$  and link to problems involving direct proportion.

## In this unit you will learn



To recognise and use lines in the form  $y = x + a$ , and extend to plotting graphs in the form  $y = mx + c$ . You will learn to explain what the  $m$  and  $c$  represent in linear graphs, explain what a graph will look like and find  $m$  and  $c$  by looking at a graph. You will learn to link graphs to linear sequences and construct linear functions from real life graphs.

## Key Vocabulary and Terminology



Tier 2: sequence, rule, positive, negative, relationship, graph, intercept, graph, calculate, functions, interpretation, context

Tier 3: linear, co-ordinate, gradient, equation, quadrant, axis

## Further Learning



[y=mx+c in a real life context](#)

[y=mx+c in a real life context, Don Steward](#)

[Oak National Academy Lessons](#)

[UKMT Maths Challenge Junior](#) questions are a great source to deepen your understanding.

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# Student Learning Journey

**Subject: Mathematics Year 8 Scale Drawing**

## Previously you have learnt



To construct and interpret scale drawings and maps. You will have learnt to construct circles and triangles using a pair of compasses. You will have gained an understanding of bearings and how to represent them.

## In this unit you will learn



To extend your knowledge on constructions to incorporate perpendicular bisectors, angle bisectors and solve loci problems. You will further develop your understanding on bearings to be able to specify direction with bearings and calculate bearings using angle facts, including angles in parallel lines.

## Key Vocabulary and Terminology



Tier 2: scale drawing, interpret, construct, angles, parallel

Tier 3: cardinal, congruent, bearing, co-interior

## Further Learning



[Scale Drawings, Pitches, Don Steward](#)

[Find the Bearing, Variation Theory](#)

[Challenging Bearings Questions, Don Steward](#)

[UKMT Maths Challenge Junior](#) questions are a great source to deepen your understanding.

## Hatton Character Qualities

Resilience	Open Mindedness	Creativity	Responsibility	Empathy
Self-Regulation	Courage	Commitment	Team Work	Leadership
Determination	Curiosity	Verbal Confidence	Social Intelligence	Citizenship

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# Student Learning Journey

**Subject: Mathematics Year 8 Transformations**

## Previously you have learnt



To recognise lines of symmetry and the order of rotational symmetry of shapes. You have will learnt to identify whether a shape has been reflected, rotated or enlarged and perform these transformations.

## In this unit you will learn



To extend your knowledge on transformations to include describing and performing translations using vector notation.

## Key Vocabulary and Terminology



Tier 2: recognise, transformation, reflect, enlarge, rotate, horizontal, vertical, clockwise, anticlockwise, translate

Tier 3: rotational symmetry, degree, column vector

## Further Learning



[Attractive Rotations – Nrich Puzzle](#)

[Transformation Game – Nrich Puzzle](#)

[Who is the fairest of them all? – Nrich Puzzle](#)

[UKMT Maths Challenge Junior](#) questions are a great source to deepen your understanding.

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# Student Learning Journey

**Subject: Mathematics Year 8 Probability**

## Previously you have learnt



Nothing specifically on probability in Primary school or Year 7. You will however already understand risk and chance of something occurring.

## In this unit you will learn



The concept of probability, the vocabulary used and how probability can be represented. You will learn to compare theoretical probabilities with experimental probabilities and be able to comment on the differences.

## Key Vocabulary and Terminology



Tier 2: scale, likelihood, certain, impossible, likely, unlikely, theoretical, experimental, chance, bias

Tier 3: probability, Venn diagram, relative frequency, sample space diagram

## Further Learning



[Could it be a probability? – Variation Theory](#)

[Simple probability in words – Variation Theory](#)

[Probability: Venn Diagrams and Two-Way Tables – Variation Theory](#)

[UKMT Maths Challenge Junior](#) questions are a great source to deepen your understanding.

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# Student Learning Journey

**Subject: Music Year 8 Rotation 2**

## Previously you have learnt



In the first rotation of Year 8 you have looked at the birth of popular music through Jazz and Blues, and have developed your understanding of the use of music within film. You have combined composition, performance and listening skills to further your understanding of music from a variety of genres, styles and periods.

## In this unit you will learn



You are going to develop your **listening and appraising** skills, and **performance** skills through the study of bass lines in music, and will **compose** and **perform** music for computer/video games.

You will also develop your performance skills alongside your keyboard techniques

## Key Vocabulary and Terminology



Tier 2: compose, contrast, improve, develop, variation, evaluate, texture, structure, dynamics, tempo

Tier 3: monophonic, homophonic, polyphonic, verse-chorus, rondo, syllabic, melismatic, conjunct, disjunct, straight rhythm, syncopated rhythm, Through-composed

## Further Learning



Focus On Sound

[Video Game Music](#)

[All About The Bass](#)

[Keyboard Skills Development](#)

## Hatton Character Qualities

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# Student Learning Journey

**Subject: Year 8 Football**

## Previously you have learnt



Students have previously learnt; Dribbling (Both feet), Receiving and Turning, Passing and Moving, Shooting and Attacking/Outwitting opponent

## In this unit you will learn



Dribbling and turn against defenders, Development of attacks, Teamwork and Defensive strategies

## Key Vocabulary and Terminology



**Tier 1:** Technique, positioning, accuracy, communication

**Tier 2:** Distribution, tactics

## Further Learning



[Small Sided Game](#)

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# Student Learning Journey

**Subject: Physical Education Year 8 Hockey**

## Previously you have learnt



How to demonstrate the principles of attack and defence, use of space, different marking, covering, delaying strategies and application of modified game rules. You have also developed key concepts of team games such as developing your ability to outwit opponents and teams using strategies and tactics. You have also learnt how to adapt and refine core skills to improve performance.

## In this unit you will learn



Dribbling & Movement with the ball, Passing & Reverse stop. How to create a space/ attacking principles, also how to defend using the 'Jab' tackle, you practise shooting and apply these in to a game situation, you will also continue to demonstrate teamwork and outwitting an opponent.

## Key Vocabulary and Terminology



Tier 1: Speed, direction, control, jab, reverse stick, spatial awareness, receiving open and closed

Tier 2: Jockeying, outwit, split dodge, V drag

## Further Learning



[Receiving](#), [Defending](#), [1 vs 1](#) and [Shooting/ Hitting the ball](#)

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# Student Learning Journey

**Subject: Physical Education Year 8 Netball**

## Previously you have learnt



In year 7, you learnt about movement, space, passing and receiving. You looked at how to outwit an opponent by defending and attacking. Shooting, defending and attacking using dodging. Before moving onto a competitive game situation with positions, looked at potential awareness and movement on the netball court.

## In this unit you will learn



In Year 8 you will recap passing skills and fundamental rules, be able to identify which pass is used when on a netball court. Progressing your attacking, defending and shooting skills before moving onto game situations using all the new skills you have developed. You will develop your overall knowledge of a netball game looking at positions. As well as knowing basic netball rules

## Key Vocabulary and Terminology



Tier 2: passing, shooting, communication and teamwork

Tier 3: footwork, pivoting, obstruction, outwitting, intercepting, receiving, ball handling, marking, and dodging.

## Further Learning



[Passing basics](#)  
[Defending principles](#)  
[Creating space](#)

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# Student Learning Journey

**Subject: Science Year 8 The Fairground**

## Previously you have learnt



About nutrients and food tests in 8B2, forces in 7P4 and 8P3 and about the classification of metals and non-metals in 7C4. You would have investigated the reactivity of metals with acids, water and oxygen and have built the reactivity series of metals. You have also developed your investigative skills, including scientific method and variables.

## In this unit you will learn



How to explain the importance of nutritional information on food products and use food tests to identify the nutrients in common fairground food items. You will also explain the physics behind roller coasters, investigate the factors that change the time of a pendulum and explain how to prevent rusting in roller coasters.

## Key Vocabulary and Terminology



Tier 2: Explain, describe, suggest, recall.

Tier 3: Iodine, starch, Benedict's reagent, corrosion, kinetic energy, gravitational potential energy, centripetal force

## Further Learning



[Reagents and food testing - Nutrition and food tests \(CCEA\) - GCSE Biology \(Single Science\)](#)

[Revision - CCEA - BBC Bitesize](#)

[Kinetic energy - Energy - National 5 Physics Revision - BBC Bitesize](#)

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# Student Learning Journey

**Subject: Science Year 8 8P4 Motion**

## Previously you have learnt



In primary school, you may not have learnt about motion in physics, but we often use the word. What do you know about motion so far? Let your teacher know.

## In this unit you will learn



How to describe and give examples of vectors and scalars, to calculate speed and draw and interpret distance-time graphs for a variety of journeys. You will also describe and investigate acceleration and draw and interpret speed-time graphs for a variety of journeys.

## Key Vocabulary and Terminology



Tier 2: Describe, explain, interpret, evaluate, conclude.

Tier 3: Scalar, vector, acceleration, speed, velocity, mass, weight, displacement.

## Further Learning



[Vector quantities - Scalar and vector quantities - Edexcel - GCSE Combined Science Revision - Edexcel - BBC Bitesize](#)

[Motion and speed - Forces and movement - KS3 Physics - BBC Bitesize - BBC Bitesize](#)

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# Student Learning Journey

**Subject: RE, Yr 8, How much can we learn about religion and culture from Dia De Los Muertos?**

## Previously you have learnt



You have knowledge of the foundations of all major faiths, inclusive of Humanist ideas. You are able to articulate the core principles of Buddhism and have recently considered what our role is on the planet when investigating whether or not it matters if the northern white rhino becomes extinct. You have been introduced to ideas of ethics and morality and have considered different religious responses to social justice.

## In this unit you will learn



You will acquire detailed knowledge of the festival of Dia De Los Muertos and analyse how religion and culture can become blended. You will explore the catholic and meso American roots of Day of the Dead and understand its historical and cultural significance. You will think critically about the core principles of remembering the dead, and also about modern day interpretations of Dia De Los Muertos including the Disney film CoCo.

## Key Vocabulary and Terminology



Tier 2: Death, remembering, festival, marigold

Tier 3: Offrenda, Dia De Los Muertos, Marigold bridge, Spiritual awakening

## Further Learning



[british library resource on dia de los muertos](#)

[What is Culture? \(youtube.com\)](#)

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