



Student Learning Journey

Subject: Art Year 7 Natural Form

Previously you have learnt



You will have a variety of previous art skills and learning from Primary school. You may have had experiences from using wet paint media, drawing, 3D, textiles. As part of your art lessons and experience in your primary school you will have researched artists from around the world looking at the way they work, their heritage and worked in their style.

In this unit you will learn



The focus in this first art project will be on learning about the formal elements through year 7 across your time in Art. In this project we will aim to focus primarily on artist's research, observing natural form and in exploring different materials and processes. You will be introduced to a wide selection of diverse artists linking to the natural world. You will also learn how to respond and analyse an artist's work through exploring materials they use in their work working in drawing, painting as well as 3D media and materials.

Key Vocabulary and Terminology



Tier 2: nature, form, observe

Tier 3: emboss, tone, line, structure, media

Further Learning



Tate Exhibitions website: [Colour](#)

Bbc bitesize website: [elements of art](#)

Hatton Character Qualities

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

Excellence

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Achievement

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Student Learning Journey

Subject: Art Year 7 Pattern and Colour term 2+3

Previously you have learnt



You will have a variety of previous art skills and learning from Primary school. You may have had experiences from using wet paint media, drawing, 3D, textiles. As part of your art lessons and experience in your primary school you will have researched artists from around the world looking at the way they work, their heritage and worked in their style. In your first project you developed skills in the formal elements through natural form using dry and wet drawing media as well as clay to design and make your own clay tile.

In this unit you will learn



In this project, you will explore the formal elements, colour, pattern and shape developing on from project 1 on natural form. You will be introduced to a wide selection of diverse artists linking colour and pattern for example Yayoi Kusama, David Hockney, Fauvist movement, etc. you will also learn how to respond and analyse artist's work. You will explore a variety of different media including oil pastels, mono printing, collage, 3D modelling and watercolour paint.

Key Vocabulary and Terminology



Tier 2: evaluate, analyse, create, accuracy

Tier 3: composition, abstract, texture

Further Learning



TATE website – [Colour](#)

TATE website – [Pattern](#)

Hatton Character Qualities

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Student Learning Journey

Subject: Computer Science Year 7 Binary

Previously you have learnt



You learnt how to count in Maths throughout your primary school education. You have also learnt that numbers have different values depending on what column they are written in (1000's 100's, 10's, 1's)

In this unit you will learn



You will be expected to learn how to count from 0 to 15 in binary. You will also learn how to convert a binary number into denary (normal) numbers and vice versa. Finally, you will learn how to perform addition of two binary numbers.

Key Vocabulary and Terminology



Tier 2: Convert, add, value, digit, place value, carry.

Tier 3: Binary, bit, byte, nibble, denary, decimal.

Further Learning



[Binary](#)

[Data representation](#)

Hatton Character Qualities

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Student Learning Journey

Subject: Dance Year 7 Rotation 2

Previously you have learnt



In your first rotation, you focused on performance skills and how these are developed within a routine. You will have looked at two or more different dance styles.

You will have also evaluated ones of your routines looking at performance and improvement.

In this unit you will learn



In this unit, you will learn about choreographic devices and how to apply them in your own routine. In your group, you will each take on the role of a choreographer and develop the skills of communication and teaching.

Also in this unit you will look at dance appreciation, this is linking your work to work of professional this is through verbal and written evaluation

Key Vocabulary and Terminology



Tier 2: choreograph, perform, appreciation

Tier 3: Action, space, dynamics, relationship, unison, canon, formations, starting position, addition, direction, retrograde, contract, motif, stimulus, levels.

Further Learning



[dancer tips: performance prep - youtube](#) – performance techniques

[discovering devi, 'impressions of the observer' - youtube](#) - bharatanatyam dance

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Student Learning Journey

Subject: Drama Year 7 Rotation 1: Introduction to Drama

Previously you have learnt



As this is your first rotation of Drama at Sir Christopher Hatton Academy, we will be reviewing your prior learning from Primary school and building upon your existing knowledge and experience.

In this unit you will learn



To use Drama techniques, through a series of practical explorations: MAGIC 7, Performance Rules, Technical Theatre, Staging Types, Script Work and Body propping.

You will specifically develop your Verbal Confidence, Social Intelligence, Creativity and Team work qualities as you get to know your group and your teacher.

Key Vocabulary and Terminology



Tier 2: Voice, Eye Contact, Body Language, Movement, Facial Expression, Gesture, Space, Perform, Rehearse.

Tier 3: Proxemics, Characterisation, Traverse Staging, Thrust Staging, Proscenium Arch Staging, In-the-Round Staging, Context, Dialogue, Stage directions, Script, Rehearse, blocking, body propping, freeze frame, still image, blocking, stimulus.

Further Learning



[Staging - Staging - Edexcel - GCSE Drama Revision - Edexcel - BBC Bitesize](#)

Hatton Character Qualities

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Student Learning Journey

Subject: Design Technology Year 7 Introduction to Product Design

Previously you have learnt



In your primary school you will have generated, developed and modelled design ideas aimed at particular groups or individuals and made products from a range of materials and ingredients. You will have drawn out design ideas and taken part in a range of practical activities. During your time at SCHA you have been introduced to different materials (natural and synthetic) and developed your graphics skills. You may also have completed some practical work in another material areas (depending on your rotation)

In this unit you will learn



In this module, you will learn about how to work safely in the workshop and use hand tools and equipment to mark out, saw, finish and polish acrylic.

You will also learn about CAD and CAM and be able to use 2D Design to draw out a design to be cut using a laser cutter.

Key Vocabulary and Terminology



Tier 2: investigate, generate, develop, design, follow

Tier 3: Hazard, working drawing, Coping saw, File, glass paper, CAD/CAM, 2D Design, laser cutter, prototype

Further Learning



BBC Teach: [Design and Technology](#)

Oak Academy: [The world of design](#)

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Student Learning Journey

Subject: Design Technology Year 7: Introduction to Textiles

Previously you have learnt



In your primary school you will have generated, developed and modelled design ideas aimed at particular groups or individuals and made products from a range of materials and ingredients. You will have drawn out design ideas and taken part in a range of practical activities. During your time at SCHA you have been introduced to different materials (natural and synthetic) and developed your graphics skills. You may also have completed some practical work in another material areas (depending on your rotation)

In this unit you will learn



In this module, you will learn about how different cultures use textiles to communicate information about their identity and experiment with a range of different traditional techniques including Block Printing and Hand Embroidery. You will explore the work of contemporary Textile artist Liz Payne and produce a final piece inspired by your own identity.

Key Vocabulary and Terminology



Tier 2: Culture, Tradition, Develop, Design

Tier 3: Pattern, Motif, Rhythm, weave, embroidery, block print, stencil

Further Learning



Liz Payne: [Liz Payne | Artist | Sydney, Australia \(lizpayne.com\)](http://lizpayne.com)

Textiles Collection: [Textiles · V&A \(vam.ac.uk\)](http://vam.ac.uk)

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Student Learning Journey

Subject: Design Technology Year 7 Introduction to Design Technology

Previously you have learnt



In your primary school you will have generated, developed and modelled design ideas aimed at particular groups or individuals and made products from a range of materials and ingredients. You will have drawn out design ideas and taken part in a range of practical activities.

In this unit you will learn



In this module, you will build a range of foundation skills as a designer. You will learn practical skills in Textiles, Food, Resistant Materials and Graphics as well as strategies to generate, develop and present design work. You will explore the work of influential designers and learn about key issues that influence designers such as target market and material properties.

Key Vocabulary and Terminology



Tier 2: investigate, generate, develop, analyse, culture, quality, accuracy

Tier 3: oblique, render, block print, cotton, CAD, Acrylic, nutrient, cross contamination, influential, form

Further Learning



BBC Teach: [Design and Technology](#)

Oak Academy: [The world of design](#)

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Student Learning Journey

Subject: English, Year 7, Childhood

Previously you have learnt



In primary school, you would have looked at the development of characters in stories. You will have also experimented with descriptive writing with a focus on spelling and grammar.

You may also have read and explored stories where children are at the heart. You may have enjoyed reading about the adventures of children your own age.

In this unit you will learn



This unit will take you on a journey of all the exciting events of Victorian London, with a focus on Crime and Punishment, the introduction of the Poor Laws of 1834 and the contrasting conditions of the rich and poor. In your close reading of the text, you will gather all the evidence needed for a perfect analytical paragraph.

You will also get to learn about autobiographies and reading non-fiction work where inspirational adults tell us all about the events of their childhood. This will lead to you writing an impassioned speech about the rights of children.

Key Vocabulary and Terminology



Tier 2: Victorian, era, population, poverty, workhouse, orphan, corrupt, undertakers, vulnerable, malicious, vicious, pommelled, wayfarer, roystering, naïve, manipulate, villain, betrayed, criminal, convict, punishment, cruel, aggressive, victim, brutal, compassion, hesitate

Tier 3: Connotation, analyse, topic sentence, noun phrase, concrete, abstract, paragraph, discourse marker, pronouns, verbs, auxiliary verbs, anaphora, persuade

Further Learning



[Explore the British Library Search - Oliver Twist](#)

[BBC - History: Victorians](#)

[The British Bee Hive by George Cruikshank](#)

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Student Learning Journey

Subject: Geography Year 7 How does the Earth work?

Previously you have learnt



In the previous unit, 'Geography Skills: Me and My World,' you gained a foundational understanding of geography and developed essential skills such as map reading, using Ordnance Survey maps, and understanding aerial photos. You learned to locate places worldwide, describe them using geographical vocabulary, and calculate real-world distances using map scales. You also practiced identifying directions with a compass rose, interpreting aerial photographs, and creating maps of your local area. The unit culminated in a local fieldwork experience in Wellingborough, where you applied your newfound skills to investigate your local area.

In this unit you will learn



This unit will delve into the Earth's natural systems and processes, exploring the lithosphere, hydrosphere, biosphere, and atmosphere. You will learn about the rock cycle, water cycle, carbon cycle, and the impact of glaciation. The unit will also cover biomes and their distribution, as well as the human impact on Earth's systems, such as deforestation and plastic pollution.

Key Vocabulary and Terminology



Tier 2: Earth, Water, Rock, Cycle, Biomes, Pollution, River, Glaciers, Systems, Natural

Tier 3: Lithosphere, Hydrosphere, Biosphere, Atmosphere, Rock cycle, Water cycle, Carbon cycle, Glaciation, Biomes, Deforestation, Pollution, Natural hazards, Earthquakes, Volcanoes, Floods, Interconnected, Human impact, Resources, Climate change, Atmosphere, Plate tectonics

Further Learning



The Rock Cycle: [BBC Bitesize](#)

The Water Cycle: [National Geographic Water Cycle](#)

Understanding Biomes: [Understanding Biomes](#)

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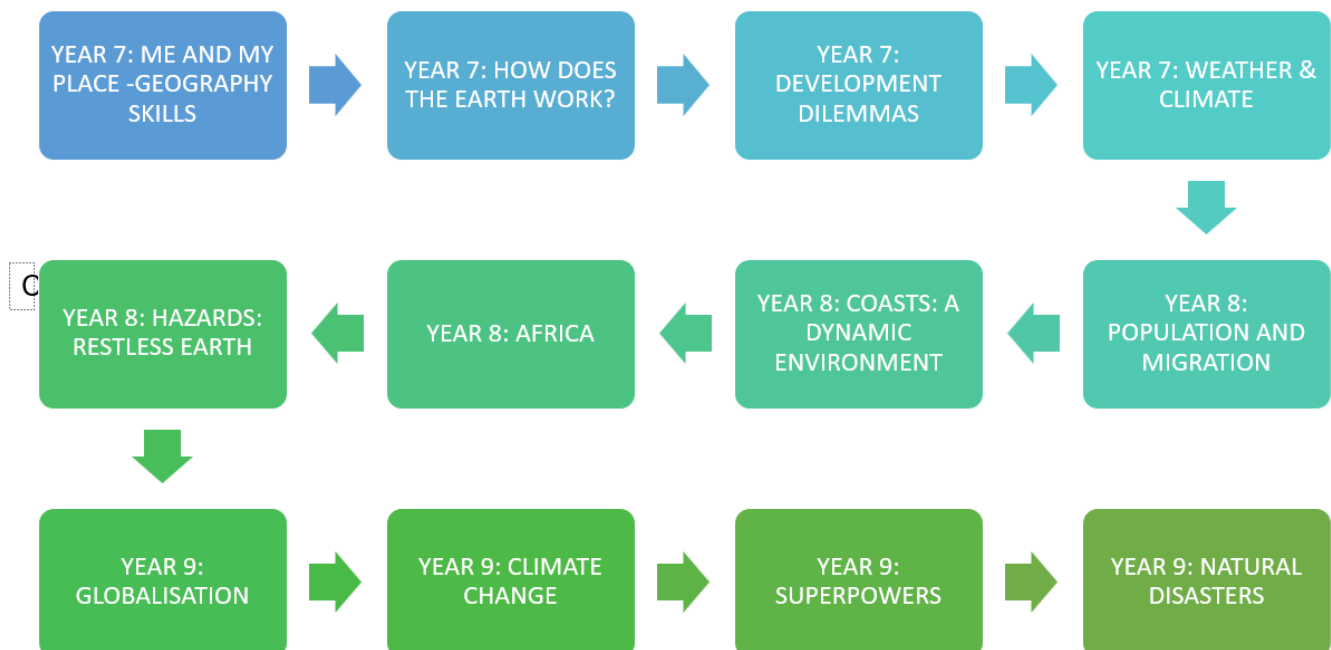
Inspiration

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How Does the Earth Work?

Topic Statement	🤔	😊	😄
I know the four main parts of the Earth (lithosphere, hydrosphere, biosphere, atmosphere).			
I understand the rock cycle and how it shapes the Earth's surface.			
I grasp how the water cycle operates and why it's vital for life.			
I can explain the carbon cycle and its impact on climate change.			
I know the different biomes on Earth and how they adapt to their environments.			
I am aware of how human actions, like deforestation and pollution, affect Earth's systems.			
I understand the causes and effects of natural hazards like earthquakes, volcanoes, and floods.			
I know how glaciers have shaped and continue to shape the landscape.			
I recognize the importance of understanding Earth's systems to manage resources and handle natural hazards.			
I understand how Earth's systems are interconnected and how changes in one can affect others.			

WHAT WILL I LEARN ABOUT IN KEY STAGE 3



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Student Learning Journey

Subject: Y7 term 2 - Unit title: Meine Familie

Previously you have learnt



In primary how to use the third person to talk about other people. Last term you have learnt how to introduce yourself, say how you are and give basic information about yourself. You will have learnt how to sound out phonics in German, so that you can become independent learner.

In this unit you will learn



How to talk about friends, family and pets. You will also learn how to talk about your likes and dislikes and revisit numbers and colours. We will continue to embed phonics and reading aloud skills.

Key Vocabulary and Terminology



Tier 2: Adjectives, verbs, verb conjugation, 1st person, 3rd person,

Tier 3: You will be able to answer questions like:

Wie ist deine Familie?

Hast du Haustiere?

Further Learning



Please look at our department Padlet under Y7 Unit 1. Here you can find all the vocabulary on the knowledge organisers.

[KS3 German \(padlet.com\)](https://www.padlet.com)

Hatton Character Qualities

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Student Learning Journey

Subject: History Year 7 Ancient Civilisations

Previously you have learnt



How to be a historian at Hatton, learning the second order concepts of significance, cause and consequence, change and continuity and similarities and difference. You applied these skills to topics like the Titanic, Great Fire of London and then focused on local history in Wellingborough, Northampton and Milton Keynes. You may have also learnt about ancient civilisations during your Primary School lessons.

In this unit you will learn



About two ancient civilisations in detail: ancient Greece and the Roman Empire. You will learn about aspects of these societies such as religion, medicine and how society was organised. At the end of the unit, you will make a judgement on which society has influenced us in the present day the most by using your evaluation of the second order concept similarity and differences. Following that, you will look at how the Romans affected Britain and how the collapse of their empire changed Britain.

Key Vocabulary and Terminology



Tier 2: Religion, society, democracy, empire, artefact, mythology, legends.

Tier 3: Republic, polytheistic, anatomy, dynasty, emperor

Further Learning



[Classics for All](#)

[The Romans BBC Bitesize](#)

Hatton Character Qualities

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Student Learning Journey

Year 7, Term 3. Topic: Core Competencies and skills for work

Previously you have learnt



In term 1 you have focussed on how to keep yourself and healthy and safe. You have learned about mindfulness and self- regulation and how these can help you in your daily life. You have also learned about road and bike safety. You will have learned about the Hatton Character Qualities, what they are and their meanings through the HBACC provision which will continue to run all year. In primary school you may have learned about the different jobs that are available for when you are older.

In this unit you will learn



The main skills in the core competencies that you need to develop the for world of work. these include: communication skills; leadership; problem solving; aspiration and teamwork. You will consider what these skills are and identify why it is important to develop those skills.

Key Vocabulary and Terminology



Tier 2: Qualifications, enterprising person, problem solving, positive thinking, ambitions, leadership, core competencies, team work and employability skills.

Tier 3: Entrepreneur

Further Learning



<http://www.hattonachool.org.uk>

[How To Improve Problem-Solving Skills For The Workplace \(successatschool.org\)](http://www.successatschool.org)

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Term 1

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Student Learning Journey

Subject: Mathematics Year 7 Number Sense 1

Previously you have learnt



In primary school you will have to read, write and understand place value for positive numbers including decimals. You will have learnt mental strategies for all four operations, along with formal written methods.

In this unit you will learn



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 will solve problems involving missing numbers, cryptarithms and how to effectively use a calculator. You will learn how to express a number as a product of primes.

Key Vocabulary and Terminology



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

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

Further Learning



[Dicey Operations, Nrich Puzzle](#)

[Diagonal Sums, Nrich Puzzle](#)

[Always a multiple, 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 7 Number Sense 2

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 this unit you will learn



To deepen your understanding on adding, subtracting and multiplying directed numbers via pictorial and abstract contexts.

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



[Negative Dice, NRich Puzzle](#)
[Practice Makes Perfect, Puzzle](#)
[UKMT Maths Challenge Junior](#) questions are a great source to deepen your understanding.

Hatton Character Qualities

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Excellence

Aspiration

Achievement

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Community

Term 2

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Student Learning Journey

Subject: Mathematics Year 7 Representing Number

Previously you have learnt



To identify and shade fractions. You will have learnt how to represent fractions using diagrams and on a number line. You will have used a diagram to compare two or more simple fractions. You will have performed all four operations with fractions.

In this unit you will learn



To fluently perform all operations with mixed numbers. You will learn to increase/decrease by a fractional amount. You will learn to articulate the definition of percentages, how to represent them using diagrams and find a percentage of an amount.

Key Vocabulary and Terminology



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

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

Further Learning



[NRich short problems on Frations, Decimals and Percentages](#)

[NRich Poster Problem for Multiplying Fractions/Fractions of an amount](#)

[Whole-y cow fractions are fun](#)

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Student Learning Journey

Subject: Mathematics Year 7 Intro to Algebra

Previously you have learnt



To use letter symbols to represent unknown numbers or variables.
You will have learnt how to form expressions from situations described in words and use/interpret algebraic notation.

In this unit you will learn



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.

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



[NRich short problems Creating and manipulating linear and quadratic expressions](#)

[NRich poster problem 'Which is Bigger?'](#)

[Missing box problems helps promote thinking backwards and deepen understanding](#)

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Term 3

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Student Learning Journey

Subject: Mathematics Year 7 2D Shapes

Previously you have learnt



In primary school to convert between metric units and have an understanding of converting to imperial units. You have learnt 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 to recognise angles as compass points.

In this unit you will learn



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. You will learn to derive and apply various angles facts, alongside finding the interior and exterior angles of polygons.

Key Vocabulary and Terminology



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

Tier 3: polygons, vertices, perpendicular, rotational symmetry, quadrilateral

Further Learning



[NRich Short Problems, Angles and Polygons](#)

[NRich Estimating Angles](#)

[Oak National Academy Lessons](#)

Hatton Character Qualities

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Student Learning Journey

Subject: Mathematics Year 7 Algebra in Context

Previously you have learnt



In Primary school to calculate the perimeter and area of basic shapes. In term 2 you learnt algebraic terminology and basic algebraic manipulation. You have learnt how to identify and collect like terms, expand and factorise expressions.

In this unit you will learn



To derive the formulae for more complex shapes and interleave algebraic notation to state perimeters and areas as expressions. You will learn to construct and solve simple linear equations using inverse operations and how this can be applied to 2D shapes.

Key Vocabulary and Terminology



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

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

Further Learning



[NRich Short Problems, 'Equations and formulae'](#)

[NRich Poster Problem 'How old am I?'](#)

[Oak National Academy Lessons](#)

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

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Term 4

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Student Learning Journey

Subject: Mathematics Year 7 3D Shapes

Previously you have learnt



In primary school to recognise 3D shapes from their nets, understand what volume is, used cubes to count it and calculate the volume of a cuboid.

In this unit you will learn



To convert between area and volume measures. You will learn to apply your knowledge of solving equations to calculate missing lengths and/or area when given the volume of prisms.

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



[Reading books on metric conversion](#)

[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 7 Ratio and Proportion

Previously you have learnt



In Primary School, the ratio symbol, terminology and using proportion to solve problems.

In this unit you will learn



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

Key Vocabulary and Terminology



Tier 2: simplify, quantity, express, equivalent, part, whole

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

Further Learning



[NRich Short Problems](#)

[NRich Poster Problem, Three Fruits](#)

[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 7 Sequences and Graphs 1

Previously you have learnt



The fundamental building blocks in Intro to Algebra. This includes understanding function notations, algebraic expressions and substitution. In Primary School you would have had experience with pictorial patterns such as continuing match stick problems.

In this unit you will learn



To describe and continue pictorial, fractional and decimal sequences. Understand key vocabulary such as position and term of a sequence. You will learn to generate and describe integer sequences, using the term to term rule and the position to term rule.

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

Further Learning



[NRich Short Problems, Patterns and Sequences](#)

[NRich, Rich task](#)

[Oak National Academy Lessons](#)

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

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Term 5

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Student Learning Journey

Subject: Mathematics Year 7 Sequences and Graphs 2

Previously you have learnt



In Primary School to read and plot coordinates in all 4 quadrants of a Cartesian plane

In this unit you will learn



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

Key Vocabulary and Terminology



Tier 2: sequence, rule, positive, negative, relationship, graph

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

Further Learning



[Coordinates, Skew Squares, Don Steward](#)

[Coordinates, A Cartesian Puzzle](#)

[Oak National Academy Lessons](#)

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

Hatton Character Qualities

Resilience	Open Mindedness	Creativity	Responsibility	Empathy
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Student Learning Journey

Subject: Mathematics Year 7 Representing Movements 1

Previously you have learnt



In Primary School to measure angles with a protractor in order to accurately draw simple shapes. You will have learnt the cardinal directions and basic angle facts.

In this unit you will learn



To apply previously taught skills in order to construct and interpret scale drawings and maps. You will learn to construct circles and triangles using a pair of compasses. You will extend your knowledge of cardinal directions to lead into understanding and representing bearings as another way to represent direction.

Key Vocabulary and Terminology



Tier 2: scale drawing, interpret, construct, angles

Tier 3: cardinal, congruent, bearing

Further Learning



[Units of Length: fill in the gaps, Variation Theory](#)

[Using Scale Diagrams and Maps, Boss Maths](#)

[Can this be a Bearing? Variation Theory](#)

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

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Student Learning Journey

Subject: Mathematics Year 7 Representing Movements 2

Previously you have learnt



In primary school to identify, describe and represent the position of a shape following a reflection or translation, using the appropriate language and know that the shape has not changed.

In this unit you will learn



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

Key Vocabulary and Terminology



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

Tier 3: rotational symmetry, degree

Further Learning



[Reflecting Squarely – Nrich Puzzle](#)

[Shady Symmetry – Nrich Puzzle](#)

[Mirror Mirror – Nrich Puzzle](#)

[Robotic Rotations – Nrich Puzzle](#)

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Student Learning Journey

Subject: Mathematics Year 7 Data and Statistics

Previously you have learnt



In primary school to read, interpret and draw bar charts, pictograms, line graphs and basic pie charts. You have also learnt to calculate the mean from a small data set.

In this unit you will learn



To conduct a statistical enquiry. This will involve understanding the data handling cycle, making a hypothesis, collecting data, displaying and analysing data, leading to drawing conclusion and evaluating the statistical enquiry.

Key Vocabulary and Terminology



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

Tier 3: rotational symmetry, degree

Further Learning



[Mean, Matching Cards - NCETM](#)

[Mean, Wiped Out](#)

[Relating Charts to data sets](#)

[Stem and Leaf Problems](#)

[Statistics Short Problems](#)

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Student Learning Journey

Subject: Music Year 7 Rotation 1

Previously you have learnt



As this is your first rotation of Music at Sir Christopher Hatton Academy we will be reviewing your prior learning from Primary school and building upon your existing knowledge and experience

In this unit you will learn



In this unit you will learn how to read and write music for Rhythm and Pitch, and how to compose a simple song using the Pentatonic Scale.

You will be expected to perform music from Western Notation in the treble clef, and will learn about how composers use timbre when composing and performing

Key Vocabulary and Terminology



Tier 2

compose, contrast, improve, develop, variation, evaluate, texture, structure, dynamics, tempo

Tier 3

semibreve, minim, crotchet, quaver, semiquaver, monophonic, homophonic, polyphonic, binary, ternary, straight rhythm, syncopated rhythm

Further Learning



Focus On Sound - <https://fosuk.server1.apps.focusonsound.com/lessons/key-stage-3>

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Student Learning Journey

Subject: PE Year 7 Basketball

Previously you have learnt



- The basic principles of attack and defence in a basketball game.
- The basic rules of dribbling and travelling in a basketball game.
- How to pass and receive a basketball during a game.

In this unit you will learn



- The principles of ball familiarisation and passing
- The skills of dribbling and pivoting when in possession of the ball.
- The ability to pass and move off of the ball.
- The correct technique for shooting a set shot.
- The correct technique for shooting lay up.
- How to outwit an opponent in a competitive game situation.

Key Vocabulary and Terminology



Tier 2

obstruction, possession, outwitting

Tier 3

travelling, pivoting, intercepting.

Further Learning

Scan these QR codes for information



Basic Ball Handling



Pivoting



Lay Up

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Student Learning Journey

Subject: PE Year 7 Football

Previously you have learnt



The students have previously learnt ball control, passing the ball to a team mate and being able to dribble the ball with their strong foot.

In this unit you will learn



Students are learning to dribble using both feet, when they are unopposed with a defender. The students are also working on receiving and turning with the ball, they are then going to pass and move around the defenders. The students will learn how to shoot with the correct technique.

Key Vocabulary and Terminology



Tier 2 First touch, Control

Tier 3 Accuracy, Movement

Further Learning

[Passing Drill](#)

[Dribbling Drill](#)

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Student Learning Journey

Subject: Physical Education Year 7 Rowing

Previously you have learnt



In primary school you learnt basic fundamental movement skills, team working and collaboration skills. You all have a basic understanding of the effects of exercise and different intensities on the body

In this unit you will learn



You will learn how to be safe while using and setting up machine. You will gain knowledge of all the machine parts. Demonstrate and use the correct rowing technique. Know the muscle groups used in rowing and controlling strokes per minute.

Key Vocabulary and Terminology



Tier 1

Start (catch), Drive, Finish, Recovery, Damper, strokes per minute

Tier 2

Deltoids, Triceps, Pectorals, Biceps, latissimus dorsi, Oblique's, Quadriceps, Hamstrings, Gastrocnemius.

Further Learning



[Indoor rowing technique](#)

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Student Learning Journey

Subject: Religious Education Year 7 How Do Religions Begin?

Previously you have learnt



In primary school you will have learned the basics about religions around the world. You may have more knowledge about some than others, but should understand some things about Christianity, Islam, Hinduism, Judaism, Sikhism, Buddhism and Humanism. You may understand how certain beliefs influence behaviour. You should have some knowledge of how certain faiths worship, and some understanding of different religious celebrations.

In this unit you will learn



You will be learning about how different religions have begun. You will be considering the starting points of many religions, and will learn about them in chronological order. You will understand the key features about how Hinduism, Islam, Buddhism, Judaism, Christianity, Sikhism and Humanism have come to be. You will understand the role of significant people in how these religions began, and what it means to be a Prophet. You will be able to identify similarities and differences between the founding stories, and should be able to create an excellent foundation of knowledge for future study.

Key Vocabulary and Terminology



Tier 2: Belief, Teachings, Quotations, Evidence, Enquiry

Tier 3: Prophet, Scripture, Judaism, Islam, Buddhism, Christianity, Monotheist, Incarnate, Angel, Prophecy, Miracle, Theism, Atheist, Agnostic

Further Learning



[BBC Bitesize Main Faiths](#)

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Student Learning Journey

Subject: Science Year 7 Biology 7B2 The Human Body Part 1

Previously you have learnt



In primary school, you learnt to identify that humans and some other animals have skeletons and muscles for support, protection and movement. You also learnt to describe the function of the digestive system. Earlier this year, you learnt about different types of cells and their functions.

In this unit you will learn



To describe the structure and function of the skeleton, muscular system and digestive system, explain the role of enzymes and bacteria in digestion and explain how messages are sent in the nervous system.

Key Vocabulary and Terminology



Tier 2: Describe, Compare, Explain, Identify.

Tier 3: Organ, System, Skeleton, Joint, Antagonistic, Digestion, Enzyme, Neurone, Reflexes, Receptor.

Further Learning



[BBC Bitesize – Skeletal System Notes](#)

[BBC Bitesize – Muscular System Notes](#)

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Student Learning Journey

Subject: Science Year 7 Chemistry 7C2 Atoms

Previously you have learnt



Earlier this year, you learnt about the particle model.

In this unit you will learn



To describe how the model of the atom was developed, explain atomic theory through performance, describe the properties of protons, neutrons and electrons, describe an element and describe the properties of different elements.

Key Vocabulary and Terminology



Tier 2: Describe, explain, negligible.

Tier 3: Protons, Neutrons, Electrons, Relative mass, Relative charge, Mass number, Atomic number, Negligible

Further Learning



[BBC Bitesize – Atom Notes](#)

[Solids, liquids and gases - BBC Bitesize](#)

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Student Learning Journey

Subject: Science Year 7 Physics 7P1 Space

Previously you have learnt



In primary school, you learnt to describe the movements of the planets in the Solar System relative to the Sun, the movement of the Moon relative to the Earth and you explained day and night.

In this unit you will learn



To describe the structure of our universe, describe the Solar System, make scale models of the Solar System, explain why the Earth has days, nights and seasons and explain the phases of the Moon.

Key Vocabulary and Terminology



Tier 2: Universe, star, planet, solar system.

Tier 3: Light year, Universe, Terrestrial, Satellite, Meteorite, Eclipse, Lunar, Solar

Further Learning



[BBC Bitesize – Space Notes](#)

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Student Learning Journey

Subject: Y7 term 2 - Unit title: Mi Familia

Previously you have learnt



In primary how to use the third person to talk about other people. Last term you have learnt how to introduce yourself, say how you feel and give basic information about yourself. You will have learnt how to sound out phonics in Spanish, so that you can become independent learner.

In this unit you will learn



How to talk about friends, family and pets. You will also learn how to talk about your likes and dislikes and revisit numbers and colours. We will continue to embed phonics and reading aloud skills.

Key Vocabulary and Terminology



Tier 2 Adjective endings, Gender, Masculine, feminine Plurals

Tier 3 ¿Cuál es tu color favorito?
¿Tienes hermanos?

Further Learning



Please look at our department Padlet under 'La familia y las mascotas (Family and Pets)'

[KS3 Spanish Padlet](#)

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