



Student Learning Journey

Subject: Art Year 10 Mock Exam Unit

Previously you have learnt



How to work through a GCSE project and how to ensure that all of the 4 Assessment Objectives are covered throughout the project. This unit (along with the yr10 structures work will contribute 60% of the final GCSE grade).

In this unit you will learn



How to develop your own independence ready for your exam unit in January. Ensure that you develop and apply the skills learnt from your first year 10 project through your evidence in recording, developing, refining and presenting a final outcome in your yr11 mock exam.

You will need to use all your research from terms 6 in year 10 and terms 1+2 of year 11 to bring it together for a conclusion and outcome for your year 11 mock exam final piece for this unit of work.

Key Vocabulary and Terminology



Tier 2: primary observation, media, refine, respond, present, artist analysis, mixed media, develop, outcome

Tier 3: lino printing, etching, stitch, paper cut, photo manipulation

Further Learning



Tate modern: [Art and Artists](#)

BBC Bitesize (GCSE): [Art and Design](#)

Hatton Character Qualities

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

Excellence

Aspiration

Achievement

Inspiration

Community



Student Learning Journey

Subject: Music Year 10 BTEC Term 6

Previously you have learnt



During Terms 5 you have looked at Component 2 – Music Skills Development, and have been focusing on the techniques, knowledge and skills required to be a practicing musician in the modern music industry.

In this unit you will learn



During this term you will continue to develop evidence for Component 2 – Music Skills Development. Your recordings and logs will increasingly be focusing your developing, and improving, techniques and skills as a musician or technician within the music industry. You will continue to chart your progress and improvements as the term progresses.

Key Vocabulary and Terminology



Tier 2 – analyse, adequate, balanced, coherent, comprehensive, creative, detailer, dexterity, insightful, investigate, linkages, logical, methodical, professional, realistic, refine, secure

Tier 3 – digital portfolio, audition, raw recording, bouncing, mixing, effects, Digital Audio Workstation (DAW), jam, vamp

Further Learning



Hatton Character Qualities

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

Excellence

Aspiration

Achievement

Inspiration

Community



Student Learning Journey

Subject: PE -BTEC Sport Component 1 Preparing Participants to Take Part in Sport

Previously you have learnt



This will be your first Unit of theory based Sport so you may find most if not all of the learning in this Unit quite new

In this unit you will learn



In Component one you will look at the types of sport and activities available for different types of participant along with looking at sport providers and barriers which may prevent sport participation. Task two looks at the types of equipment and technology for Sport and Physical Activity, with task three going on to give you the opportunity to lead small group practices and game based situations.

Key Vocabulary and Terminology



Tier 2 sport activities, describe, explain, evaluate, barriers

Tier 3 Characteristics , Cardiorespiratory, Musculoskeletal, adapting, delivering

Further Learning

[Specification - Pearson BTEC Level 1/Level 2 Tech Award in Sport 2022 Issue 2](#)


[Use the revision books that we have purchased for you](#)

Hatton Character Qualities

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

Reflection on my learning journey

What do I remember from last term? (complete at the start of the term)

Date of diary entry (complete	Key things I have learned during this term.	Questions I have for the teacher and their response.	Confidence levels with this terms topics.
			
How have this terms PE sessions built on my knowledge and skills from last term (complete at the end of the term)			



Student Learning Journey

Subject: Business & Enterprise NCFE Year 10 NEA

Previously you have learnt



About the basics of entrepreneurship, business organisation and stakeholders. You have learnt about market research, market types, orientation and marketing mix. You have also learnt about human resource requirements for business and enterprise and the types of operations Management. You have learnt about sources of funding and business finance.

In this unit you will learn



What is involved in the NEA. This is a 21 hour controlled assessment and you will need all your business theory to date to help you create a business plan for a business that will be allocated to you by the exam board. This term will be a practice mock for this and you will have time to see what is expected and how you can make improvements as we go through this NEA. You will learn about business planning, marketing analysis, the marketing mix, competition, financial planning and operations.

Key Vocabulary and Terminology



Tier 2: List, research, search, identify, define, describe, analyse, evaluate

Tier 3: appendix, controlled assessment, business planning, financial planning, marketing, boston matrix, product life cycle, pricing strategies, e commerce, advertisements, ratio analysis, profit.

Further Learning



[The role and importance of a business plan](#)

[BeeBusinessBee for Business Students](#)

[Marketing | Business | tutor2u](#)

Hatton Character Qualities

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

Excellence

Aspiration

Achievement

Inspiration

Community



Student Learning Journey

Subject: Computer Science Year 10 Algorithms

Previously you have learnt



In year 9 you learnt about key sorting and searching algorithms and how they can be used to solve problems used every day. In year you will have looked how to create flowcharts and pseudo code which you would've expanded upon in year 10.

In this unit you will learn



In this unit you will explore some famous algorithms that programmers use to search for and sort items in a list. The searching algorithms you will learn are linear search and binary search. The sorting algorithms are bubble sort, insertion sort and merge sort. You will learn how to create flowcharts and write pseudo code when planning programs.

Key Vocabulary and Terminology



Tier 2: complete, explain, identify, label, solve, write

Tier 3: search, sort, bubble sort, insertion sort, merge sort, binary search, linear search, complexity

Further Learning



[GCSE OCR Algorithms Video](#)

Hatton Character Qualities

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

Excellence

Aspiration

Achievement

Inspiration

Community



Student Learning Journey

Subject: Dance Year 10 – Term 6

Previously you have learnt



Last term you completed your first piece of coursework, component 1, exploring the performing arts

In this unit you will learn



In this unit, you will develop your rehearsal and choreographic skills while also looking at performance skills; how to create an effective rehearsal, what are the common issues and how does this effect the outcome and performance

Key Vocabulary and Terminology



Tier 2L: style, skills, choreographers, dancers, roles and responsibilities, themes, structure, theory.

Tier 3: stylistic qualities, features, creative intentions and purpose, influence, roles and responsibilities, theme, form, structure, narrative, stimulus, contextual influences, collaboration with other practitioners, influences, choreographer, dancer, lighting, set.

Further Learning



Depending on the chosen work go on to the company website and explore the history of the company.

Gain a deeper knowledge of the choreographer's influences on the set work. Re watch the work and try to link this to the movement.

Hatton Character Qualities

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

Excellence

Aspiration

Achievement

Inspiration

Community



Student Learning Journey

Subject: Drama Year 10 Term Six: Component 1 DEVSING

Previously you have learnt



The skills of responding, developing, creating, rehearsing and performing during practical lessons throughout Year 7, 8 and 9.

Using different stimuli to work with imagination to bring practical rehearsals to performance.

In this unit you will learn



You will collaboratively devise an original drama in groups based on a range of stimuli.

You must respond imaginatively, develop and refine your work following feedback and rehearse to perform to an audience. You will also write a supporting document 'portfolio' of 2,000 words.

Key Vocabulary and Terminology



Tier 2: respond, devise, stimuli, refine, process, evaluate, create, perform, analyse, intention, develop, convention, physicality, collaborate

Tier 3: stimulus, portfolio, empathy, sympathy, climax, anti-climax, tension, narrative structure, form, style, genre, Freytag's pyramid, rising action, inciting moment, catalyst, complication, conflict, resolution, context, improvise, hotseat, thought-track, tableaux, mark the moment, canon, unison, choral speaking, narration, flashback, aside,

Further Learning



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

Hatton Character Qualities

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

Excellence

Aspiration

Achievement

Inspiration

Community



Student Learning Journey

Subject: English Year 10 GCSE English Language: Spoken Language Endorsement

Previously you have learnt



Throughout your English studies at Sir Christopher Hatton you have developed your skills in presenting a strong viewpoint on a variety of topics. For example, in Year 9, you wrote an article on whether being a teenager could be considered a “universal experience”. You have developed your oracy skills through a variety of tasks in the English classroom and beyond. Now you will put all these skills together to give a presentation to an audience.

In this unit you will learn



How to structure a formal presentation to engage an audience: You will consider how to grab your audience’s attention at the beginning of your speech, ensuring that the audience can clearly understand the importance of the topic that you will be presenting on. You will develop your ideas in detail so that the presentation is rich in information that the audience can follow. Finally, you will signpost to your listeners when your presentation is coming to an end and you will use language to leave them with powerful closing thoughts. Throughout your presentation you will keep your expression formal, using sophisticated vocabulary to interest your audience.

Key Vocabulary and Terminology



Tier 2: Structure, discourse markers, pace, pause, delivery, argument, viewpoint, engagement

Tier 3: This will depend on the topic you choose to give your presentation on. You should take time to plan the language that you will use and choose a range of subject specific vocabulary. If the audience will not have heard the word before, be sure to define it.

Further Learning



[2016 Word Public Speaking Champion, Darren Tay Wen Jie](#)

[Michelle Obama's Speech "Let Girls Learn"](#)

[BBC Ideas "How to Write a Perfect Speech"](#)

Hatton Character Qualities

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

Excellence

Aspiration

Achievement

Inspiration

Community



Student Learning Journey

Subject: English Year 10 GCSE English Literature Past and Present: Poetry Anthology (Power and Conflict Cluster)

Previously you have learnt



You have studied a variety of poems linked to the theme of conflict in Year 7. In Year 8 you revisited conflict along with ideas about power and corruption in your studies of *Animal Farm*. You studied a corrupt leader in *Macbeth* by William Shakespeare in Year 9. You also studied a wide variety of poems in Year 9. Whilst studying these poems you explored how to approach and analyse poetic language and form, and how to understand and utilise historical context.

In this unit you will learn



Ways to approach poetry as a form of human expression: understanding each poem's place within history and the literary canon. You will review the ways in which poets make meaning, including the exploration of layers of meaning. You will learn to construct sophisticated arguments to explain your evaluation of poems, poets and their ideas. You will explore and discuss the contexts that shaped the poems, looking at the Romantic Era, Colonisation and the Windrush experience, Irish identities, the Crimean War and both World Wars. You will consider how the themes of power and conflict can be traced through to more modern wars and the immigrant experience. You will learn how to make a confident and well-argued personal response in which you compare two poems.

Key Vocabulary and Terminology



Tier 2: Form, structure, inference, analysis, interpretation, context, sensory, speaker, subject

Tier 3: Sonnet, enjambement, end-stopped, alliteration, metaphor, simile, assonance, sibilance, figurative expression, personification, imagery, meter, rhyme, iambic pentameter, volta, octet, sestet, Petrarchan, Shakespearean, onomatopoeia

Further Learning



[Short Course of Lectures on Poetry](#)

[Linking the Poems: Power and Conflict Revision](#)

[William Blake's London BBC Teach](#) (all the videos in this series are really helpful)

Hatton Character Qualities

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

Excellence

Aspiration

Achievement

Inspiration

Community



Student Learning Journey

Subject: Year 10 Film Studies – GCSE – NEA

Previously you have learnt



Over the course, you have spent time learning and applying a range of theory and key film studies terminology to analyse a range of film texts. You have explored how the context of a film has influenced spectator response and you have considered how narrative theories can be applied when analysing a film. You have also created a screenplay in your year 9 curriculum, so have learnt the expected codes and conventions of this structure.

In this unit you will learn



This unit will have you using your knowledge gained in the study of film texts in order to create your own screenplay for a short film sequence. You will learn how to construct a text to influence spectator response alongside the planning and creation of a shooting script storyboard for your film sequence.

Key Vocabulary and Terminology



Tier 2: narrative, construct, conventions

Tier 3: Cinematography, mise-en-scene, antagonist, protagonist, Propp, Todorov, connotation, diegetic, non-diegetic, slugline, shooting script,

Further Learning



Screenplay writing - <https://www.bbc.co.uk/bitesize/guides/z8922p3/revision/1>

Anatomy of a screenplay - <https://www.youtube.com/watch?v=spweGC4XMi8>

Formatting a screenplay - <https://www.studiobinder.com/blog/what-is-a-slug-line-definition/>

Hatton Character Qualities

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

Excellence

Aspiration

Achievement

Inspiration

Community



Student Learning Journey

Subject: German Year 10 – Health

Previously you have learnt



In Year 8 and 9, we learnt to talk about different types of food. In the topic 'free time', we gave opinions on sports. In Year 9 we used different tense to talk about sports.

In this unit you will learn



Talk about what we do to stay healthy and which habits are unhealthy. We will use all tenses to give opinions on this, and justify our reasons. We will understand texts about alcoholism and smoking and the negative effects this can have on people's health.

Key Vocabulary and Terminology



Tier 2 modal verbs, conditional, reflexive constructions,

Tier 3 We will learn vocabulary to answer questions such as:

Was machst du um fit zu bleiben? Hast du gestern gesund gegessen?

Further Learning



Please look at our department Padlet

www.padlet.com/hattonmfl/ks4german

Hatton Character Qualities

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

Excellence

Aspiration

Achievement

Inspiration

Community



Student Learning Journey

Subject: History Year 10 Elizabethan England c 1568 - 1603

Previously you have learnt



About the rule of the Tudors in particular Elizabeth I's father Henry VIII and how he started a religious rollercoaster with England changing from Catholicism to Protestantism and the creation of the Church of England. As well as religious changes you learnt about the impact of Elizabeth I not having an heir to the throne and choosing James IV of Scotland who became James I of England.

In this unit you will learn



You will study in depth the last 35 years of Elizabeth I's reign. The study will focus on major events of Elizabeth I's reign considered from economic, religious, political, social and cultural standpoints, and arising contemporary and historical controversies. For example, her control of the court, why she never married and how she led her army in foreign affairs. You will also look at life in the Elizabethan period for the different classes including the Golden Age and Exploration Abroad.

Key Vocabulary and Terminology



Tier 2

Ministers heir succession rebellion Catholicism Protestantism

Tier 3

Patronage Puritans vagabondage circumnavigation voyage

Further Learning



[Elizabeth I - GCSE History Revision - AQA - BBC Bitesize](#)

[AQA History GCSE - Elizabethan England Flashcards | Quizlet](#)

[Elizabethan England: Student revision day for AQA GCSE \(9-1\) History 2023 - YouTube](#)

Hatton Character Qualities

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

Excellence

Aspiration

Achievement

Inspiration

Community



Student Learning Journey

Subject: Hospitality and Catering Year 10 Term 6

Previously you have learnt



Last term you completed your Non-Examination Assessment (NEA). In completing this you analysed the assignment brief and recommend one dish for each customer. You assessed how the dish meets the nutritional needs of the customers and explained the impact of cooking methods on the nutritional value of your chosen dishes. You have also completed a 3.5 hours practical exam and reflected on the outcome.

In this unit you will learn



This term you will be preparing for the written exam in year 11, you will gain knowledge and understanding of employment roles and responsibilities within the industry. You will gain an awareness of the operations of the front and back of house. You will gain knowledge and understanding of workflow and layout of a hospitality and catering provision and why these workflows are necessary in hospitality and catering provisions. You will continue to develop your cooking skills by making a variety of dishes.

Key Vocabulary and Terminology



Tier 2: collate, analyse, identify, explain, state

Tier 3: provision, commercial, non-commercial, kitchen brigade

Further Learning



Textbook: Level ½ Vocational Award Hospitality and Catering; Course Companion Author Alison Palmer

Website: [WJEC H&C](#) Videos: [Kitchen Brigade](#)

BBC Bitesize: [Hospitality and Catering](#)

Hatton Character Qualities

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



Student Learning Journey

Subject: Digital Information Year 10 R050 Internet of Everything (IoE)

Previously you have learnt



About human computer interface in everyday life and data and testing. You will have learnt about the characteristics of each data type and how each data type can be used. You will also learn the different roles of validation and verification.

In this unit you will learn



what is meant by the IoE and how the World Wide Web (WWW) and the Internet are used in the use of the IoE. You will learn about the four pillars and understand the interaction between them. You will also learn the advantages and disadvantages of the IoE. You will learn about digital interactivity and how devices can be tailored to meet the needs of the end users. You will also assess the suitability of the use of the IoE for each application area and the security issues related to the use of the IoE in each application area.

Key Vocabulary and Terminology



Tier 2: Energy Management, Health, Manufacturing, Military, Emergency Services, Smart devices

Tier 3: The four pillars of the IoE, The interactivity between the four pillars, IoE digital interactivity, Device to device, Human to device, digital devices, needs of the end user

Further Learning



[OCR Cambridge Nationals IT overview](#)

[Cambridge Nationals I.T.: Internet Methods](#)

Hatton Character Qualities

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

Excellence

Aspiration

Achievement

Inspiration

Community



Student Learning Journey

Subject: Year 10, Term 6, Communication in relationships

Previously you have learnt



In Years 7 and 8 you covered how to be safe and respectful online and in daily life. You should be able to identify what a safe and positive relationship looks like whether that be with friends, peers, family, or a romantic relationship. You have also looked at how report an issues if you do not feel safe both online and in person. In Year 9, lessons looked at the implications of sharing images and the law surrounding this topic. You also had a session with the school nurses earlier in year 10 focusing on contraception, pregnancy and STI's.

In this unit you will learn



How to communicate your feelings effectively and appropriately with others with whom you share a relationship. You will also cover consent, sexual harassment, and the impacts of pornography. There will be a brief recap on STIs and contraception.

Key Vocabulary and Terminology



Tier 2: List, discuss, analyse, assess, think pair share.

Tier 3: intimacy, passive, aggressive, assertive, conflict, physical, financial, sexual, consent, explicit, STI's, contraception.

Further Learning



[Keep Children Safe Online: Information, Advice, Support - Internet Matters](#)

[Integrated Sexual Health Service | NHFT](#)

[Friends, relationships and sex | Childline](#)

[Childline | Childline](#)

Excellence

Aspiration

Achievement

Inspiration

Community

Term 1

Excellence

Aspiration

Achievement

Inspiration

Community



Student Learning Journey

Subject: Mathematics Year 10 3D Shape and Space: KLP 2

Previously you have learnt

How to recognise and sketch 3D solids, and how to name key 3D solids. How to identify the key features and names of common 3D shapes. How to sketch elevations and plans of shapes made from simple solids.



In this unit you will learn

How to calculate the surface area and volume of different 3D shapes. You will then apply this to more challenging shapes, including cones, spheres, pyramids and frustums. You will then apply this knowledge to a range of different contexts, solving problems involving both volume and surface area.



Key Vocabulary and Terminology

Tier 2: volume, surface area, dimension, sketch, calculate, convert, net, estimate



Tier 3: face, edge, vertex, cylinders, cube, cubes, prism, pyramid, sphere, cones, frustum side elevation, front elevation

Further Learning



[Volume of a Prism](#)

[Surface Area Problems](#)

[Cones, Spheres and Cylinders](#)

Hatton Character Qualities

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

Excellence

Aspiration

Achievement

Inspiration

Community



Student Learning Journey

Subject: Mathematics Year 10 Ratio & Proportion: KLP 2, 3

Previously you have learnt



How to divide a quantity into a given ratio. How to apply ratio to solve a range of problems which involve sharing a quantity. You have also learned how to represent ratio as a fraction, how to compare ratios and how to apply ratios to problems involving shapes, area and volume.

In this unit you will learn



How to apply proportional reasoning to a range of real life contexts. You will learn the difference between inverse and direct proportion. You will apply these to recipes, currency conversions, scale drawings and other contexts. You will then learn how to represent proportion graphically.

Key Vocabulary and Terminology



Tier 2: ratio, proportion, relationship, represent, statement

Tier 3: direct proportion, inverse proportion, constant, variable

Further Learning



[Currency Conversion Practice](#)

[Best Buys](#)

[Proportional Reasoning Exam Questions](#)

Hatton Character Qualities

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

Excellence

Aspiration

Achievement

Inspiration

Community



Student Learning Journey

Subject: Mathematics Year 10 Data and Statistics: KLP 5

Previously you have learnt

How collect data, how to analyse data and how to represent different types of data in appropriate charts and graphs. You have learned how to recognise samples and populations, and how to identify and discuss bias in data.



In this unit you will learn



How to represent bivariate data in a scatter graph. You will learn how to interpret data displayed in a scatter graph, and how to make inferences about the relationships between two variables. You will learn to identify outliers, and consider the reliability of interpolation and extrapolation.

Key Vocabulary and Terminology



Tier 2:

Construct, interpret, chart, graph, sample, population

Tier 3:

Discrete, continuous, bivariate data, interpolation, extrapolation, outlier, correlation, causality

Further Learning



[Scatter Graphs - Video explanation](#)

[Scatter Graphs - Exam Practice](#)

Hatton Character Qualities

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

Excellence

Aspiration

Achievement

Inspiration

Community



Student Learning Journey

Subject: Mathematics Year 10 Sequences and Graphs: KLP 1

Previously you have learnt



How to recognise simple sequences, and how to find the next term in a sequence. You have also learnt how to simplify simple algebraic expressions, how to form simple expressions and how to substitute values into expressions.

In this unit you will learn



How to recognise, form and continue different types of sequences. You will learn how to calculate and apply the n th term of an arithmetic sequence, and represent a range of contexts using sequences. You will use the n th term to make judgements and to solve problems.

Key Vocabulary and Terminology



Tier 2: ascending, descending

Tier 3: arithmetic, geometric, Fibonacci, linear, quadratic, term, progression,

Further Learning



[Explanation: How to find the \$n\$ th term.](#)

[nth term: practice questions](#)

[Sequences and Patterns](#)

Hatton Character Qualities

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

Excellence

Aspiration

Achievement

Inspiration

Community

Term 2

Excellence

Aspiration

Achievement

Inspiration

Community



Student Learning Journey

Subject: Mathematics Year 10 2D Shape and Space: KLP 2

Previously you have learnt



How to construct different types of triangles and angles using a compass. You will have also learnt how to recognise different types of angles and to find missing angles in basic shapes.

In this unit you will learn



How to recall and apply key angle facts for triangles, perpendicular lines and parallel lines. This will include proving key angle facts. You will learn how to apply multiple angle facts logically in order to solve problems.

Key Vocabulary and Terminology



Tier 2: prove, justify, identify, orientation, dimensions, construct, angle

Tier 3: polygon, regular, irregular, perpendicular, parallel, interior and exterior angles, corresponding and alternate angles, vertically opposite angles.

Further Learning



[Basic Angle Facts - Interactice Practice](#)

[Angles and Triangles Test Questions](#)

[Angles in Parallel Lines - Examples and Practice](#)

Hatton Character Qualities

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

Excellence

Aspiration

Achievement

Inspiration

Community



Student Learning Journey

Subject: Mathematics Year 10 Number Sense: KLP 5

Previously you have learnt



How to express numbers in different forms. This includes using decimals, indices and square roots. You have also learnt how to multiply and divide by powers of 10, and how to multiply decimals.

In this unit you will learn



How to express numbers in standard form, by applying multiplication of powers of 10. You will also learn how to apply arithmetic to numbers in standard form.

Key Vocabulary and Terminology



Tier 2: Evaluate, Multiply, Divide

Tier 3: Indices, standard form, tenth, hundredth, thousandth

Further Learning



[Standard Form Practice](#)

[Standard Form Questions](#)

[Standard form - Further Questions](#)

Hatton Character Qualities

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

Excellence

Aspiration

Achievement

Inspiration

Community



Student Learning Journey

Subject: Mathematics Year 10 Representing Movements: KLP 1

Previously you have learnt



How to represent movement with 8-point compass cardinal directions You will also be expected to understand basic transformations of 2D shapes. Whilst connecting to algebra you will need to be able to solve linear equations.

In this unit you will learn



The definition of a vector and how to represent on a grid and using column vectors. You will learn how to identify, describe and apply transformations on 2D shapes using vectors. You will learn perform calculations with vectors.

Key Vocabulary and Terminology



Tier 2: parallel, perpendicular, north, east south, west, transformation, enlargement, magnitude

Tier 3: movement, relationship, direction, column vector, scalar multiplication, scale factor

Further Learning



[Vectors Explanation and Practice](#)

[Vectors - Examples and Practice](#)

[Further Vectors Exam Practice](#)

Hatton Character Qualities

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

Excellence

Aspiration

Achievement

Inspiration

Community

Term 3

Excellence

Aspiration

Achievement

Inspiration

Community



Student Learning Journey

Subject: Mathematics Year 10 Algebra in Context: KLP 6

Previously you have learnt



How to form and solve equations relating to area and perimeter. You have looked at the area and perimeter of squares, rectangles, triangles, trapeziums and parallelograms. You have also calculated area and perimeter of compound shapes which use the shapes listed above, and used this knowledge to work with real life problems

In this unit you will learn



How to identify and draw all of the key parts of a circle. You will learn how to find the area and circumference of a circle and a part circle. You will learn what the value of π represents, and how to apply π to help with different calculations. You will apply your knowledge in composite shapes and real life contexts.

Key Vocabulary and Terminology



Tier 2: area, semi-circle, angle, formula

Tier 3: radius, diameter, tangent, chord, segment, circumference

Further Learning



[Parts of a Circle](#)

[Area & Circumference - Exam Questions](#)

[Sectors & Arcs - Exam Questions](#)

Hatton Character Qualities

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

Excellence

Aspiration

Achievement

Inspiration

Community



Student Learning Journey

Subject: Mathematics Year 10 Representing Numbers: KLP 5

Previously you have learnt



How to convert between fractions, decimals and percentages, and how to order the values by size. How to find percentages of amounts. How to perform arithmetic with percentages in real life contexts, and how to increase and decrease values using percentages.

In this unit you will learn



How to apply your understanding of percentage change to profit and loss. You will learn the difference between how simple and compound interest are calculated, and which is better in different situations. You will apply this to real life financial situations. You will learn about real life situations with appreciation, depreciation, growth and decay.

Key Vocabulary and Terminology



Tier 2: Compare, simple interest, compound interest, appreciation, depreciation, growth, decay, VAT, interest

Tier 3: Multiplier, repeated percentage change

Further Learning



[Simple and compound Interest Practice](#)

[Appreciation and Depreciation Questions](#)

[Compound Interest - Exam Questions](#)

Hatton Character Qualities

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

Excellence

Aspiration

Achievement

Inspiration

Community

Term 4

Excellence

Aspiration

Achievement

Inspiration

Community



Student Learning Journey

Subject: Mathematics Year 10 Data and Statistics: KLP 6

Previously you have learnt



How to calculate the mean, median, mode and range of data from a list. How to represent and interpret data using bar charts, pie charts and scatter graphs. How to identify different types of data.

In this unit you will learn



How to calculate averages from bar charts, stem and leaf diagrams. How to represent and interpret data from frequency tables, and how to estimate averages from grouped data. You will be able to explain why these averages are estimates. You will also be able to compare averages and distributions from different types of bar graphs and charts.

Key Vocabulary and Terminology



Tier 2: sample, population, chart, graph, construct, interpret

Tier 3: discrete and continuous data, outlier, mean, median, mode, measure of central tendency

Further Learning



[Comparing Distributions](#)

[Averages From Frequency Tables: Exam Questions](#)

Hatton Character Qualities

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

Excellence

Aspiration

Achievement

Inspiration

Community



Student Learning Journey

Subject: Mathematics Year 10 Probability: KLP 1

Previously you have learnt



How to interpret probability on a scale from 0 to 1, and how to interpret words like 'unlikely', 'impossible', 'certain' on the scale. Find probabilities as a fraction for simple events. How to list outcomes of events systematically.

In this unit you will learn



Use fractions, decimals and percentages to represent probabilities. Identify independent, dependant and mutually exclusive events. How to represent and calculate probabilities from two-way tables. Represent events in Venn Diagrams, and tree diagrams, and calculate probabilities from each.

Key Vocabulary and Terminology



Tier 2: impossible, unlikely, even chance, likely, certain, probability, experimental

Tier 3: Venn diagram, tree diagram, two way table, sample space diagram, relative frequency, theoretical frequency

Further Learning



[Probability Scales](#)

[Venn Diagram GCSE Questions](#)

[Tree Diagrams GCSE Questions](#)

Hatton Character Qualities

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

Excellence

Aspiration

Achievement

Inspiration

Community



Student Learning Journey

Subject: Mathematics Year 10 Sequences and Graphs: KLP 2, 3

Previously you have learnt



How to simplify different types of algebraic expressions, how to solve linear equations and how to substitute values into expressions.

In this unit you will learn



How to plot graphs in the form $y=mx+c$, and how to recognise equations from a graph. You will learn how to identify key features, including gradients and y -intercepts. How to find an equation of a line given key information, or given two points. You will then move onto how to form simultaneous equations from a context, and how to solve simultaneous equations both algebraically and graphically.

Key Vocabulary and Terminology



Tier 2: represent, axis, coordinate, relationships, parallel, perpendicular

Tier 3: y -intercept, x -intercept, gradient, simultaneous equations, variables

Further Learning



[Straight Line Graphs](#)

[y=mx+c: Examples and GCSE Questions](#), [Exam Questions: Equation of a Line](#)

[Simultaneous Equations](#)

Hatton Character Qualities

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

Excellence

Aspiration

Achievement

Inspiration

Community

Term 5

Excellence

Aspiration

Achievement

Inspiration

Community



Student Learning Journey

Subject: Mathematics Year 10 2D Shape and Space: KLP 3

Previously you have learnt



How to recall and apply key angle facts for triangles, perpendicular lines and parallel lines. You have learnt how to prove key angle facts. You have also learnt how to apply multiple angle facts logically in order to solve problems.

In this unit you will learn



How to identify and describe 2D polygons. This includes both regular and irregular polygons. You will learn to classify different types of quadrilaterals, and identify their key features. You will then learn how to recognise polygons with more sides, and how to recognise congruent shapes.

Key Vocabulary and Terminology



Tier 2: prove, justify, identify, orientation, dimensions, construct, angle

Tier 3: polygon, regular, irregular, perpendicular, parallel, interior and exterior angles, congruent, quadrilaterals, pentagon, hexagon, heptagon, octagon, nonagon, decagon

Further Learning



[Regular 2D Shapes: Interactive Tool](#)

[2D Shapes: Explanation](#)

[2D Polygons: Practice Exam Questions](#)

Hatton Character Qualities

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

Excellence

Aspiration

Achievement

Inspiration

Community



Student Learning Journey

Subject: Mathematics Year 10 Representing Movements: KLP 2, 3

Previously you have learnt



How to represent moving using column notation for vectors. You have learnt how to translate shapes using vectors. You have learnt how to reflect shapes using vertical and horizontal mirror lines.

In this unit you will learn



How to identify, describe and apply transformations. You will learn how to identify scale factors, similar shapes and congruent shapes. The transformations that you will learn are; translations with a vector, rotations with a centre, enlargements with a centre and a scale factor and a reflection in a line $y=a$ or $x=a$. You will then learn to describe movements using bearings, and interpret bearings in context. You will solve problems involving shape and space where bearings are used.

Key Vocabulary and Terminology



Tier 2: parallel, perpendicular, north, east south, west, transformation, rotation, reflection, enlargement,

Tier 3: movement, relationship, direction, column vector, scalar multiplication, scale factor

Further Learning



[Interactive Reflections](#), [Interactive Rotations](#), [Interactive Translations](#)

[Lesson: Describing Transformations](#), [Transformations Quiz](#)

[Bearings Practice Questions – Corbettmaths](#)

Hatton Character Qualities

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

Excellence

Aspiration

Achievement

Inspiration

Community



Student Learning Journey

Subject: Mathematics Year 10 Algebra in Context: KLP 7, 8

Previously you have learnt



How to form and solve equations relating to area and perimeter. You have looked at the area and perimeter of squares, rectangles, triangles, trapeziums and parallelograms. How to identify and draw all of the key parts of a circle. You will learn how to find the area and circumference of a circle and a part circle. You will learn what the value of π represents, and how to apply π to help with different calculations. You will apply your knowledge in composite shapes and real life contexts.

In this unit you will learn



How to use compound measures for density, pressure and speed. You will learn how to convert between metric speed measures and how to calculate averages for speed, distance and time. You will learn how to use the kinematics formulae to calculate speed and acceleration.

Key Vocabulary and Terminology



Tier 2: area, semi-circle, angle, formula, velocity, distance

Tier 3: density, pressure, speed, metric, kinematics

Further Learning



[Kinematics: Exam Style Questions on Kinematics](#)

[Speed, Distance, Time Graphs](#)

Hatton Character Qualities

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

Excellence

Aspiration

Achievement

Inspiration

Community

Term 6

Excellence

Aspiration

Achievement

Inspiration

Community



Student Learning Journey

Subject: Mathematics Year 10 2D Shape and Space: KLP 4, 5

Previously you have learnt



How to apply basic angle facts to 2D shapes. How to solve problems and find missing angles using angle facts. You have learnt to calculate and apply scale factors and enlargements

In this unit you will learn



How to identify regular and irregular polygons. You will learn how to calculate both exterior and interior angles in different sized polygons. You will use this knowledge to calculate the amount of sides of a regular shape given the interior or exterior angles. You will use these skills to solve problems, including tessellations. You will also learn to identify and prove congruence and similarity for triangles. You will learn to construct proofs for similarity and congruence.

Key Vocabulary and Terminology



Tier 2: angles, degrees, regular, irregular, similarity

Tier 3: polygon, interior angle, exterior angle, tessellation, congruent, scale factor, enlargement

Further Learning



[Angles in Polygons](#)

[GCSE Exam Questions: Angles in Polygons](#)

[Tessellations](#)

Hatton Character Qualities

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

Excellence

Aspiration

Achievement

Inspiration

Community



Student Learning Journey

Subject: Year 10 Mathematics Sequences and Graphs: KLP 4

Previously you have learnt



How to plot graphs in the form $y=mx+c$, and how to recognise equations from a graph. You have learned to identify key features, including gradients and y-intercepts. You have learned how to find an equation of a line given key information, or given two points. You have also learned how to form simultaneous equations from a context, and how to solve simultaneous equations both algebraically and graphically.

In this unit you will learn



How to draw and interpret graphs that represent real life situations. This includes conversion graphs, distance-time graphs and velocity-time graphs. For each type, you will be expected to interpret the graph in order to answer questions.

Key Vocabulary and Terminology



Tier 2: represent, axis, coordinate, relationships, parallel, perpendicular

Tier 3: y-intercept, x-intercept, gradient, simultaneous equations, variables

Further Learning



[Velocity-Time Graphs](#)

[Distance Time Graphs](#)

Hatton Character Qualities

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

Excellence

Aspiration

Achievement

Inspiration

Community



Student Learning Journey

Subject: Design and Technology (RM) Year 10 Non Examined Assessment (NEA)

Previously you have learnt



Over the course of key stage 4 you have engaged in a range of practical projects that follow part/all of the design process, that is: investigation and research, design brief and specification, design ideas and development, planning and manufacturing and evaluation. For each of these areas of the design process you have learnt skills and techniques to complete each element in depth and to a high standard.

In this unit you will learn



You will learn about the iterative design process, how to explore a context, identify a client, conduct meaningful research from which you develop a concise design brief and justified specification. This will then inform design ideas, prototyping and development. You will go on to apply skills in planning and manufacture to produce a prototype model of your chosen design idea which you finally test and evaluate.

Key Vocabulary and Terminology



Tier 2: consider, evaluate, analyse, plan, identifying, investigating, generate

Tier 3: iterative design, design fixation, design brief, specification, manufacture

Further Learning



BBC Bitesize: [Designing and Making Principles](#)

Technology Student: [Design and Technology NEA](#)

Supporting textbook: [CGP Design and Technology GCSE textbook](#)

Hatton Character Qualities

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

Excellence

Aspiration

Achievement

Inspiration

Community



Student Learning Journey

Subject: Sociology Year 10 The Sociology of Family and Households

Previously you have learnt



The sociological research process considering the Practical, ethical and theoretical considerations for a variety of methods. Alongside this you have considered the core themes of sociology; Socialisation, Culture, Identity, social stratification and power. Finally, you learnt about the key principles of the structural sociological theories of Functionalism, Marxism, Feminism and then compared this to Interactionism.

In this unit you will learn



To apply the theoretical views learnt last year to understand the function of the family and the changing nature of the nuclear family. Equally, by considering the core themes of sociology we will aim to explain potential causes for the changing domestic division of labour. Finally, you will apply your research methods knowledge to answer 4 mark methods in context questions.

Key Vocabulary and Terminology



Tier 2: Family, household, divorce, marriage, industrialisation, monogamy, polygamy,

Tier 3: Family diversity, domestic division of labour, nuclear family, socialisation, triple shift, unit of consumption, kibbutz, commune, globalisation, cereal packet family, social construction, secularisation, instrumental and expressive roles, congeal roles.

Further Learning



[AQA GCSE Sociology- Family. Flashcards | Quizlet](#)

[Why women file for divorce more than men - BBC Worklife](#)

Hatton Character Qualities

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

Excellence

Aspiration

Achievement

Inspiration

Community



Student Learning Journey

Subject: Spanish Year 10 La salud - *Keeping healthy*

Previously you have learnt



In Year 8 and 9, we learnt to talk about different types of food. In the topic 'free time', we gave opinions on sports. In Year 9 we used different tense to talk about sports.

In this unit you will learn



Talk about what we do to stay healthy and which habits are unhealthy. We will use all tenses to give opinions on this, and justify our reasons. We will understand texts about alcoholism and smoking and the negative effects this can have on people's health.

Key Vocabulary and Terminology



Tier 2: using me gustaría / using negative words

Tier 3: ¿Qué haces para mantenerte en forma? / ¿Qué hiciste recientemente mantenerte en forma?

Further Learning



Please look at our department Padlet

[Spanish KS4 \(padlet.com\)](https://padlet.com/Spanish KS4)

Hatton Character Qualities

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

Excellence

Aspiration

Achievement

Inspiration

Community



Student Learning Journey

Subject: Statistics: Quality Assurance

Previously you have learnt



Students should have a good understanding of probability. Knowledge of tree diagrams when the probability remains the same. Pupils will have learnt about averages and range. They have also looked at the binomial and normal distribution in the previous topics.

In this unit you will learn



Understand the process of quality assurance and see why this is necessary in the real world; know how to calculate both warning limits and action limits; Know how to draw warning limits and action limits on a sample mean, median or range versus sample number graph; understand how action and warning limits are used in the manufacturing process.

Key Vocabulary and Terminology



Event, outcome, percentage, decimal, normal distribution, binomial distribution, standard deviation, mean, symmetrical, frequencies, range, mean, median, warning limit, action limit.

Further Learning



[GCSE Statistics - Quality assurance \(control charts\) - YouTube](#)

Hatton Character Qualities

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

Excellence

Aspiration

Achievement

Inspiration

Community



Student Learning Journey

Subject: Textiles Year 10 digital portfolio creation

Previously you have learnt



In this unit you will apply this knowledge, completing a 20 hour project on a theme provided by the exam board. You will investigate, generate ideas, refine and develop techniques and processes culminating in a final outcome or outcomes which meet the set brief. You will organise and present your work in an effective and personal way. This project is 60% of your final grade.

In this unit you will learn



In this unit you will learn to use the Adobe Creative suite to create a digital portfolio of work. You will research into page balance, colour pallets, themes, the work of real-life designers and how to portray the journey of your idea generation and work. You will learn how to scan in your sketches, use Adobe Illustrator and Photoshop to refine, display and present your work in a professional manner to a high standard in a digital format. Finally, you will learn to create both creative and technical drawings appropriate for a portfolio and technical specification.

Key Vocabulary and Terminology



Tier 2: Digitally, experiment, explore, review, develop, record, communicate, confident, competent, effective

Tier 3: Design, portfolio, layout, technical specification, CAD, colour, texture, pattern, layer

Further Learning



Victoria and Albert Museum [Fashion collection](#)

Textile Artists [Contemporary Textile artists](#)

BBC Bitesize [The creative process](#)

Hatton Character Qualities

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

Excellence

Aspiration

Achievement

Inspiration

Community

Term 1

Excellence

Aspiration

Achievement

Inspiration

Community



Student Learning Journey

Subject: Mathematics Year 10 Trigonometry: KLP 2

Previously you have learnt



How to find the missing length of a right angled triangle, using the other sides of the triangle. You have learned when it is appropriate to apply Pythagoras' Theorem, and have applied it to a range of contextual 2D and 3D Problems.

In this unit you will learn



How to find missing sides and angles using the sine, cosine and tangent functions. You will learn to apply this to a range of contexts, including in terms of angles of depressions/elevations, using reasoning in contexts and 3D contexts. You will learn about the relationships between the ratios and how they relate to similar shapes.

Key Vocabulary and Terminology



Tier 2: Adjacent, Opposite, Angle, Inverse, Elevation

Tier 3: Hypotenuse, Sine, Cosine, Tangent, Function, Trigonometric Ratio, Angle of Elevation, Angle of Depression

Further Learning



[Trigonometry Practice - SOHCAHTOA](#)

[Trigonometry - Mixed Exam Practice](#)

[3D Trigonometry Practice](#)

Hatton Character Qualities

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

Excellence

Aspiration

Achievement

Inspiration

Community



Student Learning Journey

Subject: Mathematics Year 10 Sequences and Graphs: KLP 2, 3, 4

Previously you have learnt



How to recognise a range of sequences, and how to describe both arithmetic and quadratic sequences using algebra. You have learned how to apply sequences to real life contexts. You have also learned how to solve linear equations which include a range of operations

In this unit you will learn



How to represent and solve quadratic equations, and you will understand why there are often multiple solutions. You will learn how to solve quadratic equations by factorising, by using the formula and by completing the square. You will then learn how to represent linear relationships graphically and solve problems relating to straight line graphs. You will learn how to find midpoints and lengths of line segments, and apply coordinate geometry.

Key Vocabulary and Terminology



Tier 2: relationship, represent, equation, solve, formula, gradient, graph, axis, intercept, parallel, perpendicular, midpoint coordinate

Tier 3: quadratic, complete the square, factorise, y-intercept, line segment

Further Learning



[Factorising Quadratics](#), [Factorising Harder Quadratics](#), [Completing the Square](#)

[Quadratic Formula](#), [Drawing Linear Graphs](#)

[Equation of a Line](#), [Equation of a Line](#), [Midpoint of a Line](#)

Hatton Character Qualities

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

Excellence

Aspiration

Achievement

Inspiration

Community



Student Learning Journey

Subject: Mathematics Year 10 Data and Statistics: KLP 5

Previously you have learnt



How to find averages and measures of spread given a list of data, and how to make judgements based on this data. You have also learned how to represent data in a range of relevant diagrams.

In this unit you will learn



How to find quartiles and cumulative frequency from data, and how to represent and interpret data on a cumulative frequency diagram. You will learn how to make judgements based on a cumulative frequency diagram in context, and then how to translate data from a cumulative frequency diagram to a box plot diagram. You will learn how to interpret and compare box plot diagrams in context, and how to describe the distribution of a data sets.

Key Vocabulary and Terminology



Tier 2: average, distribution, represent, interpret, prediction

Tier 3: cumulative frequency, box plot, quartiles, interquartile range, median, mean, measures of spread, measure of central tendency, skew

Further Learning



[Drawing Cumulative Frequency Diagrams](#)

[Cumulative Frequency Diagrams and Box Plots: Exam Questions](#)

[Comparing Box Plot Diagrams](#)

Hatton Character Qualities

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

Excellence

Aspiration

Achievement

Inspiration

Community

Term 2

Excellence

Aspiration

Achievement

Inspiration

Community



Student Learning Journey

Subject: Mathematics Year 10 3D Shapes and Space: KLP 2, 3

Previously you have learnt



How to recognise and sketch different 3D shapes. How to identify and sketch elevations and plans based on 3D solids.

In this unit you will learn



How to find the surface area and volume of different types of 3D shapes. These shapes include prisms, pyramids, spheres and cones. You will then apply this knowledge to find missing lengths and solve problems in context.

Key Vocabulary and Terminology



Tier 2: volume, capacity, length, width, height, dimension, symmetry

Tier 3: surface area, volume, prism, cross-section

Further Learning



[Surface Area and Volume Questions](#)

[Volume and Surface Area](#)

Hatton Character Qualities

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

Excellence

Aspiration

Achievement

Inspiration

Community



Student Learning Journey

Subject: Mathematics Year 10 Sequences and Graphs: KLP 5

Previously you have learnt



How to set up and solve linear equations from a range of contexts. How to sketch linear graphs and interpret them in several contexts.

In this unit you will learn



How to set up and solve simultaneous equations from different contexts. You will learn multiple strategies to solve different types of simultaneous equations, including linear and quadratic equations. You will also learn to interpret solutions in context.

Key Vocabulary and Terminology



Tier 2: solve, unknowns, simultaneous, system

Tier 3: elimination, substitution, variables, factor, linear, quadratic

Further Learning



[Simultaneous Equations - Steps and Examples](#)

[Simultaneous Equations Worksheets - Questions and Revision](#)

[Simultaneous Equations Practice Questions](#)

Hatton Character Qualities

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

Excellence

Aspiration

Achievement

Inspiration

Community



Student Learning Journey

Subject: Mathematics Year 10 Algebra in Context: KLP5, 6

Previously you have learnt



How to apply your algebra skills to a range of different contexts, mostly relating to shape and space. You have learned to solve a range of linear equations and to interpret and justify solutions in context.

In this unit you will learn



How to apply your algebra skills to convert between measurements for speed, density and pressure. You will learn to apply this to a range of contexts, and to solve problems using these measures. You will then apply your algebra skills to representing and solving inequalities. This will include both algebraic and graphical representations.

Key Vocabulary and Terminology



Tier 2: Density, pressure, speed, solve, represent, justify, integers, continuous

Tier 3: constant speed, formulae, equations, variables, inequality, quadratic

Further Learning



[Speed, Density and Pressure Questions](#)

[Pressure practice Exam Questions](#)

Hatton Character Qualities

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

Excellence

Aspiration

Achievement

Inspiration

Community

Term 3

Excellence

Aspiration

Achievement

Inspiration

Community



Student Learning Journey

Subject: Mathematics Year 10 Financial Maths

Previously you have learnt



How to apply percentages to increase and decrease amounts. You have learnt to apply this to several contexts, and how to calculate percentage change. You have also learnt how to apply ratio to best buys.

In this unit you will learn



How to apply the Maths that you have learnt to support your understanding of financial and business applications. This will include how to calculate taxes, how to understand loans and mortgages. You will learn the difference between simple and compound interest, and the impact that these have on your financial decisions.

Key Vocabulary and Terminology



Tier 2: tax, interest, bank account, exchange rate, loans, mortgages

Tier 3: percentage increase, simple interest, compound interest, best buys, multiplier, appreciation, depreciation

Further Learning



[Simple & Compound Interest](#)

[Percentage Change](#)

[Best Buys](#)

Hatton Character Qualities

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

Excellence

Aspiration

Achievement

Inspiration

Community



Student Learning Journey

Subject: Mathematics Year 10 Data and Statistics: KLP 6

Previously you have learnt



How to collect and interpret data using different measures. You have represented data in different methods: bar charts, line graphs, scatter graphs, cumulative frequency diagrams and box plot diagrams. You have used these methods to compare and interpret different types of data.

In this unit you will learn



When it is appropriate to construct a histogram. You will then learn how to construct and interpret histograms from class intervals with both even and uneven class intervals. You will then learn to estimate the mean and median from a histogram, and make interpretations from the data.

Key Vocabulary and Terminology



Tier 2: data, class, quantitative, qualitative, axis, frequency

Tier 3: Histogram, class width, frequency density

Further Learning



[Histograms - Explanations](#)

[Histograms - Online Practice](#)

[Histograms GCSE Exam Questions](#)

Hatton Character Qualities

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

Excellence

Aspiration

Achievement

Inspiration

Community



Student Learning Journey

Subject: Mathematics Year 10 Sequences & Graphs: KLP 6, 7

Previously you have learnt



How to plot and interpret linear graphs, in the form $y=mx+c$ and the form $ax+by=c$. You have applied these in different contexts, and been able to interpret the gradient and y-intercept in real life. You have also solved questions relating to straight line graphs and coordinates, including find the equation of a line between two points.

In this unit you will learn



How to plot non-linear graphs, and how to identify these graphs based on their key features. You will look at quadratics, cubics and circles. You will learn to apply your algebraic skills to find roots, turning points, and points of intersections (where relevant). You will then move onto reciprocal and exponential graphs, and relate them to real life growth and decay contexts.

Key Vocabulary and Terminology



Tier 2: substitute, gradient, growth, decay

Tier 3: quadratic, cubic, exponential, reciprocal, function, y-intercept, x-intercept, turning point, minimum and maximum points, factorise, asymptote

Further Learning



[Non-Linear Graphs](#)

[Quadratic Graphs: Examples](#)

[Reciprocal Graphs, Exponential Graphs](#)

Hatton Character Qualities

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

Excellence

Aspiration

Achievement

Inspiration

Community

Term 4

Excellence

Aspiration

Achievement

Inspiration

Community



Student Learning Journey

Subject: Mathematics Year 10 Trigonometry: KLP 3, 4

Previously you have learnt



How to apply trigonometry to find missing lengths and angles of right angled triangles. How to identify different sides of a right angled triangle. How to apply Pythagoras' Theorem to find side lengths. How to find angles of elevation and depression, and apply Pythagoras' Theorem and Trigonometry in real life contexts.

In this unit you will learn



How to find missing sides and angles of non-right angled triangles using trigonometry. You will learn to apply the sine rule, the cosine rule and the area of a triangle using trigonometry. You will learn to apply these to both 2D and 3D shapes, and to coordinate geometry. You will also learn how to identify trigonometric values. You will then learn how to sketch the graphs $y=\sin x$, $y=\cos x$ and $y=\tan x$

Key Vocabulary and Terminology



Tier 2: formula, degrees, bearings, apply, 3D

Tier 3: sine, cosine, tangent, inverse function, periodic,

Further Learning



[The Sine Rule](#), [The Cosine Rule](#)

[Trigonometric Graphs](#)

[Challenging Sine Rule Problems](#), [Cosine Rule Problems](#)

Hatton Character Qualities

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

Excellence

Aspiration

Achievement

Inspiration

Community



Student Learning Journey

Subject: Mathematics Year 10 Ratio and Proportion: KLP 2

Previously you have learnt



How to apply ratio to solve a range of problems which involve sharing a quantity. You have learnt to understand ratio as a fraction, and use proportion in real life contexts, including exchanging money, recipes and to calculate value for money. You have also learnt how to apply ratio to scale drawings.

In this unit you will learn



How to represent proportion graphically. You will learn the difference between direct and inverse proportion. You will start by working with linear proportion, but will then move onto exponential relationships. You will learn how to represent this with algebra, and how to apply algebra in order to solve problems involving proportion.

Key Vocabulary and Terminology



Tier 2: ratio, proportion, relationship, represent, statement

Tier 3: direct proportion, inverse proportion, equation, constant, variable

Further Learning



[Proportion using Graphs](#)

[Direct and Inverse Proportion](#)

[Exam Style Questions: Direct and Inverse Proportion](#)

Hatton Character Qualities

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

Excellence

Aspiration

Achievement

Inspiration

Community



Student Learning Journey

Subject: Mathematics Year 10 2D Shape and Space: KLP 3

Previously you have learnt



How to apply basic angle facts to 2D shapes. How to solve problems and find missing angles using angle facts.

In this unit you will learn



How to identify regular and irregular polygons. You will learn how to calculate both exterior and interior angles in different sized polygons. You will use this knowledge to calculate the amount of sides of a regular shape given the interior or exterior angles. You will use these skills to solve problems, including tessellations.

Key Vocabulary and Terminology



Tier 2: angles, degrees, regular, irregular

Tier 3: polygon, interior angle, exterior angle, tessellation

Further Learning



[Angles in Polygons](#)

[GCSE Exam Questions: Angles in Polygons](#)

[Tessellations](#)

Hatton Character Qualities

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

Excellence

Aspiration

Achievement

Inspiration

Community



Student Learning Journey

Subject: Mathematics Year 10 Number Sense: KLP 5

Previously you have learnt



How to round values to decimal values and significant figures. How to represent large and small numbers using standard form, and how to represent and manipulate surds.

In this unit you will learn



How to apply accuracy and bounds to estimate solutions. You will learn how to calculate the upper and lower bounds of numbers when they have been rounded. This will include when different operations have been applied to the numbers. You will learn to apply this to real life contexts, involving shape and space.

Key Vocabulary and Terminology



Tier 2: round, accuracy, appropriate degree of accuracy

Tier 3: significant values, bounds, error interval, truncation

Further Learning



[Upper and Lower Bounds](#)

[Bounds: Further Notes](#)

[Revision of Bounds and Error Intervals](#)

Hatton Character Qualities

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

Excellence

Aspiration

Achievement

Inspiration

Community

Term 5

Excellence

Aspiration

Achievement

Inspiration

Community



Student Learning Journey

Subject: Mathematics Year 10 Algebra in Context: KLP 7, 8

Previously you have learnt



How to interpret linear graphs in context, and how to find the gradient of a linear graph. You have learnt how to sketch non-linear functions, and find key points. You have also learned how to convert between compound measures.

In this unit you will learn



How to draw and interpret graphs that represent real life situations. This includes conversion graphs, distance-time graphs and velocity-time graphs. For each type, you will be expected to interpret the graph in order to answer questions. You will then learn how to estimate the area under a quadratic graph, and interpret the gradient in non-linear graphs. You will use this to interpret non-linear real life graphs, including estimating the speed at a given time.

Key Vocabulary and Terminology



Tier 2: distance, time, velocity, acceleration, convert, average, rate of change.

Tier 3: gradient, intercepts, quadratic, tangent, displacement, instantaneous rate of change

Further Learning



[Velocity-Time Graphs](#)

[Distance Time Graphs](#)

[Finding Gradients of Non-Linear Graphs](#)

Hatton Character Qualities

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

Excellence

Aspiration

Achievement

Inspiration

Community



Student Learning Journey

Subject: Mathematics Year 10 Advanced Algebra: KLP 1, 2

Previously you have learnt



How to apply algebra to help you solve a range of real life problems. You have learnt how factorise expressions and how to solve difficult linear and quadratic equations. You have also learnt how to simplify surds, and how to simplify fractions.

In this unit you will learn



How to work with fractions involving algebra. You will learn to simplify algebraic fractions and how to apply arithmetic to them. You will apply your knowledge of quadratics to algebraic fractions. You will also solve problems involving algebraic fractions. You will then move onto proof theory, and learn how to prove simple statements using algebraic language. This will include statements with odd and even numbers.

Key Vocabulary and Terminology



Tier 2: solve, prove, simplify, express, evaluate

Tier 3: quadratic, rationalise, surd, expression, factor, factorise

Further Learning



[Algebraic Fractions: Practice Exam Questions](#)

[Proof Questions](#)

[Algebraic Proof: Exam Style Questions](#)

Hatton Character Qualities

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

Excellence

Aspiration

Achievement

Inspiration

Community

Term 6

Excellence

Aspiration

Achievement

Inspiration

Community



Student Learning Journey

Subject: Mathematics Year 10 Sequences and Graphs: KLP 8

Previously you have learnt



How to plot linear graphs, and how to solve problems using linear graphs, including finding perpendicular lines. You have also learned to plot non-linear graphs, and how to identify these graphs based on their key features. You have learnt to identify the key features of quadratic and cubic graphs. You have learned to apply your algebraic skills to find roots, turning points, and points of intersections (where relevant).

In this unit you will learn



How to recognise and plot equations of a circle, in the form $x^2 + y^2 = r^2$. You will use this knowledge to solve problems involving circle graphs, and find the radius of the graph of a circle. You will then learn how to find the equation of a tangent of a circle at a given point. You will apply your knowledge to solve problems involving circular graphs.

Key Vocabulary and Terminology



Tier 2: substitute, gradient, perpendicular, intersection

Tier 3: quadratic, cubic, exponential, reciprocal, function, y-intercept, x-intercept, turning point, and radius, tangent

Further Learning



[Circle Graphs](#)

[Equation of a Tangent to a Circle](#)

[Equation of a Circle Exam Papers](#)

Hatton Character Qualities

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

Excellence

Aspiration

Achievement

Inspiration

Community



Student Learning Journey

Subject: Mathematics Year 10 Representing Movements: KLP 3

Previously you have learnt



How to identify, describe and apply transformations on 2D shapes. These include translations, rotations, reflections and enlargements. You have also learned how to describe movements through the use of bearings. You have learned how to solve problems using Pythagoras' Theorem and right angled trigonometry. You have also learned how to construct simple logical proofs.

In this unit you will learn



How to describe movements using column vector notation, and using variables. You will learn how to describe movements between two points using variables, and recognise parallel vectors. You will learn how to calculate the sum, the scale multiple and the resultant of two vectors. You will use vector notation to solve 2D geometric problems and to construct geometric proofs.

Key Vocabulary and Terminology



Tier 2: parallel, perpendicular, movement, inverse, displacement

Tier 3: movement, relationship, direction, column vector, scalar multiplication, scale factor,

Further Learning



[Vectors Explanation and Practice](#)

[Vectors - Examples and Practice](#)

[Further Vectors Exam Practice](#)

[Vector Proof Exam Questions](#)

Hatton Character Qualities

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

Excellence

Aspiration

Achievement

Inspiration

Community



Student Learning Journey

Subject: Mathematics Year 10 Advanced Algebra: KLP 3

Previously you have learnt



How to apply algebra to help you solve a range of real life problems. You have learnt how factorise expressions and how to solve difficult linear and quadratic equations.

In this unit you will learn



How to interpret and use function notation, and how this notation relates to a coordinate axis. You will learn to apply functions, to find inverse functions and composite functions, and how to solve problems using function notation.

Key Vocabulary and Terminology



Tier 2: solve, prove, simplify, express, evaluate, input, output

Tier 3: function, inverse, composite, quadratic

Further Learning



[Composite Functions](#)

[Functions Practice](#)

[Functions: Exam Style Questions](#)

Hatton Character Qualities

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

Excellence

Aspiration

Achievement

Inspiration

Community



Student Learning Journey

Subject: Physical Education Year 10 Football

Previously you have learnt



Students have previously learnt skills such as; Heading, Attacking at Pace, Shooting under pressure, Defensive Tactics, Set Plays

In this unit you will learn



Students will be learning; Set Plays, Defensive Unit, Attacking as team (11 aside), Penalties, Goalkeeping.

Key Vocabulary and Terminology



Tier 1: Technique, positioning, accuracy, communication

Tier 2: Distribution

Further Learning



[Movement Patterns](#)

[3 Team Attack](#)

[Small Sided game](#)

Hatton Character Qualities

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

Excellence

Aspiration

Achievement

Inspiration

Community



Student Learning Journey

Subject: Physical Education Year 10 Netball

Previously you have learnt



In Year 9, you have learnt netball fundamentals rules, use space on court, look at attacking and defending principles, team tactics with centre passes and working the ball around the circle.

In this unit you will learn



In Year 10, you will focus on attacking principles, outwitting oppositions, defending principles. When gained an understanding you will move onto team strategies and tactics with opportunities to umpire and coach.

Key Vocabulary and Terminology



Tier 2: tactical, decision making, speed, leadership, coach, passing

Tier 3: footwork, pivoting, obstruction, possession, outwitting, intercepting, receiving, ball handling, shooting, marking, dodging, covering, agility, tactical, umpire

Further Learning



[Move and Release](#)

Hatton Character Qualities

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

Excellence

Aspiration

Achievement

Inspiration

Community

Excellence

Aspiration

Achievement

Inspiration

Community



Student Learning Journey

Subject: Religious Education, Year 10, Should the individual be sovereign when making personal decisions?

Previously you have learnt



You have foundational knowledge of the beliefs and practices of different core faiths and Humanism which you are able to apply to different thematic studies such as the relationship between religion and the environment. You can explain the difference between fundamentalist and liberalist views and apply this to everyday scenarios. You can use scripture to support you in your writing and can differentiate between different perspectives. You recognise what a worldview is and understand that an individual's beliefs are closely linked to their geographical and religious heritage.

In this unit you will learn



You will explore the way in which Religion impacts life, considering the links between religion and the value of the world, abortion, euthanasia, and life after death. You will focus on the application of religious and atheist views to various ethical debates, considering what your own view is on contentious issues in society. You will think about whether you as an individual, should have full control over the decisions you make, both in terms of the environment and your personal autonomy. Should the individual be sovereign or should be defer to a higher power or religious law?

Key Vocabulary and Terminology



Tier 2

Abortion, Euthanasia, Value of Life, Palliative care, Value, Evolution, Sovereign, Autonomy

Tier 3

Stewardship, Dominion, Awe, Wonder, Sanctity of Life, Imago Dei, Ex Nihilo, Omnibenevolent

Further Learning



[the rights and wrongs of euthanasia video](#)

[what is the evidence for evolution](#)

Hatton Character Qualities

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

Excellence

Aspiration

Achievement

Inspiration

Community