



Student Learning Journey

Subject: Art Year 10 Structures term 3+4

Previously you have learnt



You will have previously explored a selection of project titles in year 9 including 'Everyday Objects' and 'Human'. A wide selection of media will have been introduced including 3D, printmaking and various painting and drawing techniques.

You have already explored the initial starting points of structures and now you will need to further explore this through a deeper, more meaningful and personal visual development.

In this unit you will learn



This unit you will further develop your skills through the theme of 'Structure'. You will explore the title in a personal way highlighting your own ideas and interpretations. 3D, printmaking, papercutting, photography and various artist media will be developed in your project linking to your theme.

Key Vocabulary and Terminology



Tier 2: evaluate, analyse, create, accuracy

Tier 3: composition, embellishment, macro-art/photography, monochromatic

Further Learning



Tate Gallery: [Structures](#)

Saatchi Gallery: [Structural Artists](#)

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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Student Learning Journey

Subject: Business & Enterprise NCFE Year 10 Finance

Previously you have learnt



About costs, revenue and profit from Year 9. You have learnt about types of costs, such as fixed and variable, revenue (price x quantity) and profit (revenue – costs).

In this unit you will learn



About cash flow, how to construct and interpret a break even chart and understand the difference between assets and liabilities. You will learn how to interpret data from a balance sheet and a profit and loss account – this is a very important skill to learn! You will also learn about ratio analysis and the acid test ratio.

Key Vocabulary and Terminology



Tier 2: List, research, search, identify, define, describe, analyse, financial, non-financial.

Tier 3: Assets, liabilities, current, non-current, cash flow, inflow, outflow, margin of safety, acid test, ratio analysis

Further Learning



[Basic financial terms - Financial terms and calculations](#)

[The importance of cash flow - Cash and cash flow](#)

[Analysing the financial performance of a business](#)

Hatton Character Qualities

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Student Learning Journey

Subject: Computer Science Year 10 Network Security and Systems Software

Previously you have learnt



How computers can be joined together to form networks that can be used to send data from one computer to another.

In this unit you will learn



The types of security threats that can occur on a network and how they can be prevented. You will also learn the different types of software available for use on computers.

Key Vocabulary and Terminology



Tier 2: evaluate, analyse, context, apply, link, describe, explain, research, discuss, explore

Tier 3: malware, phishing, social engineering, brute force, denial of service, SQL injection, data interception, firewall, encryption, peripheral, defragmentation, utility, operating system, vulnerability

Further Learning



[Threats to Networks](#)

[Systems software](#)

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Student Learning Journey

Subject: Dance Year 10 Component 1: Exploring the Performing Arts Term 4

Previously you have learnt



Last term you prepared for your Component 1 module looking at different practitioners and works, and how this fits a theme. This was explored through a series of theory and practical based tasks. This has prepared you to take the next step in your BTEC course in completing your Component 1.

In this unit you will learn



In this unit, you will complete your first piece of coursework - Component 1. You will explore 3 professional works and how they fit with the given theme. You will be able to articulate your knowledge through both a presentation and practical explorations.

Key Vocabulary and Terminology



Tier 2: style, skills, choreographers, dancers, rehearsal, time, organisation

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

Further Learning



[A Choreographer's Creative Process in Real Time | Wayne McGregor | TED Talks - YouTube](#) – in this video you will see a live rehearsal and witness rehearsal techniques.

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Student Learning Journey

Subject: Drama Year 10 Term Four: Component 3 Set Text: DNA

Previously you have learnt



The skills of critical analysis and evaluation from the Live Theatre section of Component 3 and related written examination approaches for Drama questions.

How to take a script from page to stage in Year 9 with *Too Much Punch for Judy* –specifically focussing on the craft of the actor in terms of vocal and physical skills.

In this unit you will learn



To understand and practice how to be a ‘Theatre Maker’: a designer, actor AND director of the play *DNA* by Dennis Kelly.

To be able to write exam answers for Section A of the written examination: specifically 4), 6), 9), 12) and 14) mark responses.

Key Vocabulary and Terminology



Tier 2: Theatre Makers, designer, director, performer, analysis, evaluation.

Tier 3: Pitch, pace, pause, emphasis, volume, intonation, tone, space, body language, posture, gesture, eye contact, movement, facial expression, proxemics, gait, inflection, accent, tension, conflict, climax, rising action, falling action, inciting moment, Freytag’s Pyramid, narrative, plot, structure, form, resolution, denouement.

Further Learning



[Establishing character and plot - Performing a script - Edexcel - GCSE Drama Revision - Edexcel - BBC Bitesize](#)

[Preparing for the written exam - How to answer set text exam questions - Edexcel - GCSE Drama Revision - Edexcel - BBC Bitesize](#)

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Student Learning Journey

Subject: Hospitality and Catering Year 10 NEA

Previously you have learnt



Last term you have been working on your Non-Examination Assessment (NEA/coursework). Analysed the assignment brief and recommend one dish for each customer. Assess how the dish meets the nutritional needs of the customers. Explain the impact of cooking methods on the nutritional value of your chosen dishes.

In this unit you will learn



This Term you will continue to work on your Non-Examination Assessment (NEA/coursework). You must discuss the factors which affected your chosen dishes and plan the production of the two dishes by writing a dovetail plan. You will demonstrate how to work safely, follow correct food safety and hygiene practices and procedures in relation to the preparation and cooking of food and use of equipment and facilities in a practical exam setting.

Key Vocabulary and Terminology



Tier 2: collate, find, identify, label, state

Tier 3: Hot holding, Organoleptic, Commodity, Dovetail/sequencing.

Further Learning



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

Website: [WJEC H&C](#)

BBC Bitesize: [Hospitality and Catering](#)

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Student Learning Journey

Subject: Design and Technology (RM) Year 10 Developments in New Materials

Previously you have learnt



In years 7-9 you have learned about the theory of different material areas and the environmental impact of manufacturing with different resistant materials. In term 1 and 2 of year 10 you looked at new and emerging technologies and energy generation and storage. This knowledge has been developed alongside you developing practical skills across different material areas.

In this unit you will learn



In this unit you will learn about recent developments in new materials These are materials that have been developed over the past 50 years and include modern materials, smart materials, composites and technical textiles. You will learn about the properties and characteristics of these materials, their applications and advantages and disadvantages.

Key Vocabulary and Terminology



Tier 2: consider, analyse, explain, compare, advantages, disadvantages

Tier 3: modern materials, smart materials, composites, technical textiles, polymorph, thermochromic, photochromic

Further Learning



BBC Bitesize: [Developments in New Materials](#)

Technology Student: [Smart and Modern Materials](#)

Technology Student: [Composites](#)

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

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Student Learning Journey

Subject: Design and Technology (RM) Year 10 Mock NEA project

Previously you have learnt



In years 7 -9 you have learnt how to mark out, cut and finish materials and basic information about working with and joining timber, metals plastics (polymers) safely. You have worked with hand tools and used CAD and CAM to produce high quality products. You have also completed practical projects where you have designed and made products made from woods and plastics.

In this unit you will learn



During this unit you will follow the design process to complete a mock NEA style project. Your final NEA project is worth 50% of your final GCSE grade.

You will learn how to investigate a context, carry out research, write up a specification from which you will base your design ideas. You will then learn about different designing and prototyping strategies to come up with design ideas. You will learn how to develop a selected design and then go on to manufacture a product. You will also learn about how to evaluate your work

Key Vocabulary and Terminology



Tier 2: Consider, evaluate, specify, justify, explain, annotate

Tier 3: context, client, prototype, design strategies, design fixation

Further Learning



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

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

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

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Student Learning Journey

Subject: Textiles Year 10 Assessment Project

Previously you have learnt



Throughout this course, you have developed a wide range of practical skills. This includes decorative surface pattern techniques, pattern adaption and garment construction. You have learnt how to collect primary and secondary research, developing work in response to a theme and exploring the work of contemporary and traditional designers and textile artists. You are able to generate, develop and communicate creative design ideas in a personal way and can organise and present your work effectively

In this unit you will learn



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.

Key Vocabulary and Terminology



Tier 2: investigate, experiment, generate, review, develop, record, communicate, confident, competent, effective

Tier 3: design development, portfolio, client, toile, surface pattern, draping, colour, texture, pattern, line

Further Learning



Victoria and Albert Museum [Fashion collection](#)

Textile Artists [Contemporary Textile artists](#)

BBC Bitesize [The creative process](#)

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Student Learning Journey

Subject: English Year 10 An Inspector Calls by J B Priestley

Previously you have learnt



In Year 7, you will have covered Oliver Twist with links to late 19th and early 20th Century context, and the effects of industrialisation on poverty and society.

In Year 8, you will have covered Sherlock Holmes and focused on the presentation of crime, the police and community as well as women in the 19th and early 20th Century.

In Year 9, you studied the play Macbeth and considered how drama texts might be presented on stage to explore themes and ideas.

In this unit you will learn



Ways to approach Priestley and mid-20th century drama. You will explore the hallmarks of mid-20th century 'drawing-room drama' and realist theatre, exploring how meanings within it are shaped. You will learn clear, concise and critical arguments that explore layers of meaning and a range of perspectives. You will explore the contexts that shaped the play looking at both early and mid 20th century values, traditions, beliefs and events. You will explore how these might have shaped Priestley's view and therefore the play; you will also explore the ways in which the play can and perhaps should be perceived in your context of reception.

Key Vocabulary and Terminology



Tier 2: Industrialisation, poverty, allegory, moralistic, hierarchy, stratification, prejudice, prestige, corporation, dejection, degradation, characterisation, generation, inheritance, profit, capitalism, disenfranchisement, privilege, disadvantage

Tier 3: Realism, proxemics, dramatic tension, dramatic irony, dramatic structure, dramatic device, interrogate, scrutinise, denouement, climax, conscription, hegemony, industrial action, strike

Further Learning



[Massolit An Inspector Calls Lectures](#)

[The Complete Text Online](#)

[Video of the Play](#)

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Student Learning Journey

Subject: English Year 10 GCSE English Language Paper 1: *Explorations in Creative Reading and Writing*

Previously you have learnt



At Key Stage 3, you will have read high quality classic prose fiction, such as *Oliver Twist* by Charles Dickens and the *Sherlock Holmes Mysteries* by Arthur Conan Doyle.

You will have developed ways to approach and analyse class reader texts, such as *Skellig* and *The Secret Garden*. In addition, your own background in reading for pleasure will be a great help and support to you in your studies for Paper 1!

In this unit you will learn



Ways to approach English Language Paper 1 Section A: You will learn how to read, understand and analyse a high quality unseen prose fiction extract. You will learn the particular assessment foci of each question in Section A. You will understand the best way to approach each question, including timings, key words, and phrases that will help you to gain marks.

You will learn strategies to help you write a successful response to the creative and descriptive writing prompts in Section B.

Key Vocabulary and Terminology



Tier 2: metaphor, extended metaphor, simile, personification, repetition, chronology, revelation, resolution, climax, setting, focus, shift, zoom

Tier 3: protagonist, antagonist, author, exposition, characterisation, foreshadowing, cyclical structure, sibilance, juxtaposition, narrative voice, narrative perspective, allusion, imagery, symbolism, motif, flashback

Further Learning



[GCSE English Language - BBC Bitesize](#)

[Structure of fiction texts - Language and structure - AQA - GCSE English Language Revision - AQA - BBC Bitesize](#)

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Student Learning Journey

Subject: Year 10 Film Studies – GCSE – Component 2, Section A – Global English Language films - District 9 - Narrative

Previously you have learnt



This year you have learnt how to analyse a film and have explored how to embed film terminology and theories. As well as this, you have spent time analysing the film Attack the Block and the aesthetics that have been constructed through the use of mise-en-scene and cinematography.

In this unit you will learn



This unit will have you learning and applying the key narrative theories – including Todorov, Propp, Freytag and Aristotle. As well as this, you will spend time studying the contextual links of the apartheid and how this influences the audiences’ responses to the film and the themes and issues presented in it.

Key Vocabulary and Terminology



Tier 2: Exposition, equilibrium, narrative, exposition, inciting incident, rising action, climax, falling action, resolution, and denouement

Tier 3: Segregation, apartheid, allegory, regime

Further Learning



[Film Studies Fundamentals](#)

[Apartheid](#)

[Narrative film theory](#)

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Student Learning Journey

Subject: Geography – Year 10, Physical Landscapes of the UK

Previously you have learnt



About at **tectonic hazards** studying the **2011 Japan earthquake** and the **2010 Haiti earthquake** and how those hazards are **managed**. You also studied the concept of **development** and the **development gap**. In this you have looked at the **impact that physical geography has on development**. You developed your geography skills through using **OS maps** and **analysing** other sources such as photographs and geographical reports.

In this unit you will learn



You are going to learn about how the UK landscape is dynamic and constantly changing. You will look at the process of **erosion, transportation and deposition**. You will examine how these key areas such as **Hunstanton**, which you will also visit as a part of your fieldwork study, the **River Tees** and **Somerset Levels**.

Key Vocabulary and Terminology



Tier 2: primary effects, protection, secondary effects, economic impact, environmental impact,
Tier 3: hydrological cycle, geology, hydraulic action, Longshore drift

Further Learning



UK Landscapes - <https://www.bbc.co.uk/bitesize/topics/zskbv4j>

Hatton Character Qualities

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Topic Review

Case Study Summary Notes

Excellence

Aspiration

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Inspiration

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Student Learning Journey

Subject: Geography – Year 10, Urban Issues and Challenges

Previously you have learnt



About at **tectonic hazards** studying the **2011 Japan earthquake** and the **2010 Haiti earthquake** and how those hazards are **managed**. You also studied the concept of **development** and the **development gap**. In this you have looked at the **impact that physical geography has on development**. You developed your geography skills through using **OS maps** and **analysing** other sources such as photographs and geographical reports.

In this unit you will learn



You are going to learn about urban population change and how urban growth creates opportunities and challenges for cities in LICs and NEEs. You examine the city of Rio De Janeiro, looking at the significance of the city both within the country but also globally. You will also explore the causes for Rio's rapid urban growth and how that has impacted the people of Rio

Key Vocabulary and Terminology



Tier 2: Urban, rural, economic impact, environmental impact,

Tier 3: Migration, rural-to-urban migration, push factors, pull factors, urban growth, sanitation, congestion, urban planning, industrial, informal settlements

Further Learning



UK Landscapes - <https://www.bbc.co.uk/bitesize/topics/z9wgc82>

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Student Learning Journey

Subject: German Year 10 Beziehungen (Relationships)

Previously you have learnt



In Year 7 we learnt how to describe our family using the 3rd person. In year 9 we developed this to be able to talk in more depth about how we get on with our family and friends.

In this unit you will learn



How to talk about and understand texts about relationships and our future plans. We will learn about different types of relationships and families and listen to people talking about them in three time frames.

Key Vocabulary and Terminology



Tier 1 Reflexive verbs, adjectives

Tier 2 "Möchtest du heiraten?" "Wie verstehst du dich mit deiner Familie?"

Further Learning



Please look at our department Padlet

[KS4 - German links](#)

Hatton Character Qualities

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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](#)

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Student Learning Journey

Subject: Digital Information Year 10 Data Manipulation using Spreadsheets

Previously you have learnt



During this year, you will have learnt the planning required for spreadsheets and human interfaces. You will have learnt basic and advance spreadsheet skills including functions, charts, pivot tables and formatting. You will have learnt about different types of hardware and software, including their advantages and disadvantages.

In this unit you will learn



How to plan, implement, test and evaluate a spreadsheet based on a client's requirements. You will be expected to manage coursework deadlines while ensuring work is completed to a high standard.

Key Vocabulary and Terminology



Tier 2: charts, data, row, column, sort, filter, client

Tier 3: formatting, If Formulas, vlookups, conditional formatting, validation, pivot tables, macros

Further Learning



[19 Most Useful Excel Skills, Functions & Formulas \(Beginner to Advanced\)](#)

[20 Must-Have Excel Skills for Professionals in 2022 – One Education](#)

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Student Learning Journey

Subject: Exploring Influences

Previously you have learnt



In Year 7 you covered health and puberty with a focus on your mental and physical health. In Year 8 you covered influences and impacts of legal and illegal drugs such as vaping, tobacco and alcohol. In Year 9, the lessons focused on healthy lifestyles. Exercise, managing anxiety and healthy eating.

In this unit you will learn



How to deal with the influences of drugs and alcohol and their effects, the impact of these influences on your lives and how to get support if needed. You will also cover knife crime and its impacts on your community. There will be lessons that focus on eating disorders and the effects of social media on a person's mental health.

Key Vocabulary and Terminology



Tier 2: Revenge, awareness, consequences, dehydration, body image, bulimia, anorexia, eating disorders

Tier 3: Purging, stigmatising

Further Learning



alcoholchange.org.uk

[Honest information about drugs | FRANK \(talktofrank.com\)](http://talktofrank.com)

<https://www.youngminds.org.uk/>

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Term 1

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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](#)

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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](#)

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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](#)

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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](#)

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Term 2

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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

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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
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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

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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

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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

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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

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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
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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

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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

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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
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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

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Term 6

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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

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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

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Term 1

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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

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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

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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

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Term 2

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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

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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
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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
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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
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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
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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
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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
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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
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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

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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
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Term 5

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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

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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

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Term 6

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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

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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

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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

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Student Learning Journey

Subject: Music Year 10 BTEC Term 4

Previously you have learnt



During Terms 1 and 2 you have developed your knowledge and understanding of a variety of musical styles, from western pop through to world music and music for film.

In Term 3 you worked to complete Component 1 of the course, working on both Tasks 1 and 2.

In this unit you will learn



During this term you will complete Component 1, including any resubmission work, and then begin to develop the skills, knowledge and experience needed to complete Component 2 – Music Skills Development. You will review your existing knowledge and abilities in live performance, composition, production or sequencing, and then demonstrate your abilities for an examination board set brief.

Key Vocabulary and Terminology



Tier 2 – analyse, adequate, balanced, coherent, comprehensive, creative, detailer, dexterity, insightful, investage, 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
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Student Learning Journey

Subject: RS, Year 10, How does geographical heritage influence religious views?

Previously you have learnt



Previously you have learnt about the concept of world views, comparing the world views of others to your own. You studied the concepts of cultural heritage, historic churches, duty and choice, and global patterns. Throughout your religious studies lessons, you have considered the importance of key religious figures from the 6 main world faiths and the impact of beliefs and practices on a person's way of life.

In this unit you will learn



You will explore different places around the world and consider how the geographical and historical heritage of a country or location can have significant influence on the worldviews and beliefs of people from that place. Exploring the links between culture and faith understanding the way belief transcends and evolves over time. You will consider the denominations of Orthodox Christianity and will also learn about Amish and Mormon faiths.

Key Vocabulary and Terminology



Tier 2: Heritage, statistics, faith, worship, spiritual, nature, state law, religious law, beliefs, values, shrine.

Tier 3: Cultural appropriation, Monk, Orthodox, Liberal, Fundamentalism, Eucharist, Sacraments, monasticism, secularisation.

Further Learning



[The world's most beautiful places of worship - BBC Travel](#)

Hatton Character Qualities

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Student Learning Journey

Subject: Science Year 10 Biology CB9 Ecosystems and Material Cycles

Previously you have learnt



In Year 8, you analysed food chains and webs and learnt how to sample. In Year 9, you learnt about bacterial cells and how to obtain safe drinking water.

In this unit you will learn



To describe the structure of ecosystems and explain interdependence, explain the effect of abiotic and biotic factors on communities, investigate species using sampling, compare parasitic and mutualistic relationships, explain human impact on biodiversity and methods to preserve it, explain how different nutrients are cycled through ecosystems.

Key Vocabulary and Terminology



Tier 2: Abundance, conservation, investigate, compare.

Tier 3: Ecosystem, interdependence, abiotic, biotic, quadrat, belt transect, parasite, mutualist, biodiversity, eutrophication.

Further Learning



[BBC Bitesize – Revision Notes](#)

Hatton Character Qualities

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Student Learning Journey

Subject: Science Year 10 Chemistry CC12 Reversible Reactions

Previously you have learnt



In Year 7, you learnt about a variety of chemical reactions. You have expanded your knowledge of chemical reactions throughout year 8 and 9 too.

In this unit you will learn



To describe and explain how dynamic equilibrium reactions work.

Key Vocabulary and Terminology



Tier 2: Describe, explain.

Tier 3: Dynamic equilibria, reversible.

Further Learning



[BBC Bitesize – Reversible Reactions Revision Notes](#)

Hatton Character Qualities

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Student Learning Journey

Subject: Science Year 10 Chemistry CC15 Heat Energy Changes

Previously you have learnt



In Year 7, you learnt about a variety of chemical reactions. You have expanded your knowledge of chemical reactions throughout year 8 and 9 too. In a previous topic, you learnt about rates of reaction.

In this unit you will learn



To describe how to differentiate between exothermic and endothermic reactions and explain why some reactions are exothermic whilst others are endothermic.

Key Vocabulary and Terminology



Tier 2: Describe, explain, differentiate.

Tier 3: Exothermic, endothermic.

Further Learning



[BBC Bitesize – Heat Energy Changes in Reactions Revision Notes](#)

Hatton Character Qualities

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Student Learning Journey

Subject: Science Year 10 Chemistry CC16 Fuels

Previously you have learnt



In Year 7, you learnt that combustion is a process involved in the burning of fuels. In Year 9, you discussed non-renewable fuels and how to separate mixtures.

In this unit you will learn



To describe what hydrocarbons and crude oil are, describe fractional distillation of crude oil and the properties and uses of the fractions, describe the properties of the alkane homologous series, explain complete and incomplete combustion, explain how using combustible fuels can lead to pollution and explain the importance of cracking.

Key Vocabulary and Terminology



Tier 2: Describe, properties, compare, explain.

Tier 3: Hydrocarbon, finite, viscous, combustion, impurity, cracking.

Further Learning



[BBC Bitesize – Fuels Revision Notes](#)

Hatton Character Qualities

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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

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Student Learning Journey

Subject: Spanish Year 10 La familia (Family)

Previously you have learnt



In Year 7 we learnt how to describe our family using the 3rd person. In year 9 we developed this to be able to talk in more depth about how we get on with our family and friends.

In this unit you will learn



How to talk about and understand texts about relationships and our future plans. We will learn about different types of relationships and families and listen to people talking about them in three time frames.

Key Vocabulary and Terminology



Tier 2 Immediate future, Possessive adjectives

Tier 3 ¿Te llevas bien con tu familia? ¿Quién es tu mejor amigo/a? ¿Cómo es?

Further Learning



Please look at our department Padlet

[Spanish KS4](#)

Hatton Character Qualities

Resilience	Open Mindedness	Creativity	Responsibility	Empathy
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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
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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)			