

Longfield Academy Curriculum Overview

		Core Subjects – The ‘Basics’		Core Subjects			EBACC & Facilitating Subjects				Foundation Subjects		
		English Language & Literature	Maths	Science	PE	Life	Spanish	History	Geography	Computing	Music	Art	Design Technology
Year 7	Half Term 1	Spy Fiction: Reading of ‘Stormbreaker’	Sequences Understand and use algebraic notation Equality and equivalence	Structure and function of living organisms - Cells and organisation Introduction to chemistry and Reproduction - Reproduction in plants	Rotation: Fitness, netball, basketball, swimming, rugby, football	Belonging: Importance of religion The UK as a Multi-Faith Society	Introducing myself	Who are the British?	Continents and oceans Human and physical geography Characteristics of hot and cold environments Impacts of tourism	Online communication Keeping safe Conducting yourself	Rock School: What music means to you	Formal elements Paper sculpture Photography	Food: Hygiene rules Knife safety Cooker safety Key critical temperatures Healthy eating Eatwell guide
	Half Term 2	Spy Fiction: Creative Writing	Place value and ordering integers and decimals Fractions, decimals and percentage equivalence	The particulate nature in matter - The particle model Electricity and electromagnetism - Voltage and current	Rotation: Basketball, hockey, rugby, swimming, football, badminton	Expression: Religious clothing Rites of passage	Presenting other people	The Norman Conquest of England	Countries in UK and The British Isles Human and physical geography of The British Isles Topography, grid references, scale and distance on OS maps Longitude and latitude	Produce professional documentation Advanced text editing tools such as tables, auto contents, mail merge etc.	Music through time: The Medieval and Renaissance Period: 1400-1600.	Formal elements Paper sculpture Photography	
	Half Term 3	Global Issues: Reading, non-fiction texts	Solve problems with addition and subtraction Solve problems with multiplication and division Fractions and percentages of amounts	Forces and motion – Speed Pure and impure substances - Separating mixtures	Rotation: Outdoor adventures, cross country, rugby, football, fitness, swimming, hockey	Religion and Society Holy books / scriptures Parables	My school and studies	How did William change England?	Fluvial processes Characteristics of waves Landforms in the coastal environment Engineering strategies to manage coastal processes	Program Sub program Shape calculations with variables to create a drawing of a house. OR Create a program with sub programs to create a number of interactive playable games.	Music Around the World: British Folk Music.	Landscape Perspective Paining	Product Design: Pattern seeking Health and safety Manufacturing processes Textile Tools Running stitch and back stitch Materials: textiles Presentation and design ideas Client specification Evaluation of different art styles Oblique Drawing projection and textile rendering Product evaluation
	Half Term 4	Global Issues: Transactional Writing	Operations and equations with directed numbers Addition and subtraction of fractions	Inheritance, chromosomes DNA and genes – Variation Chemical reactions - Acids and alkali	Rotation: Badminton, fitness, outdoor adventure, cross country, dance, gym	Prophets: Adam and Eve Genesis Prophets and revelation	Where I live	What was Medieval life like (social)?	Earth’s structure Plate boundaries Convection currents Natural hazards Earthquakes	Flowchart Sub program with variables to create an interactive playable game. Learning about inputs, decisions and outputs.	Rock school: Jazz and the Blues	Landscape Perspective Paining	
	Half Term 5	Children in Literature: Study of a range of fiction / non-fiction texts, poetry and plays	Constructing measuring and using geometric notation Developing geometric reasoning	Space physics - The solar system Earth and atmosphere - Climate	Rotation: tennis, athletics, cricket, dance, gym, rounders	Growing up Healthy relationships	Holidays	What was Medieval life like (political)?	Plate boundaries Volcanoes: types, eruptions and living with	Shape calculations with variables to make the grabber game. Movie Making and editing with special effects.	Music through time: The Baroque Period: 1600-1750.	Experimental Fish Modelling Creature design	Engineering: BOT Health and safety Manufacturing processes Woodwork Tools Materials: Timbers Presentation and design Client specification Isometric Drawing projection and timber rendering Product evaluation
	Half Term 6	Literature: ‘Holes’ Study of the whole text, with a focus on character development and themes	Developing number sense Sets and probability Prime numbers and proof	Waves- Sound waves Reproduction - Reproduction in humans	Rotation: Cricket, rounders, tennis, softball, dance, gym	Sources of authority: Religious traditions Church traditions	Cultural capital – festivals across Spain	Who was the most significant Tudor Monarch?	Globalisation Impacts of TNCs – social, economic, environmental and political Globalisation in Darlington	Movie making and editing. Knowledge of pan and zoom, fading, overlays, transitions, chroma key, text effects and more.	Music Around the World: The Music of Africa	Experimental Fish Modelling Creature design	

Year 8	Half Term 1	Gothic Fiction: Reading of 'Coraline'	Ratio and scale Multiplicative change Multiplying and dividing fractions	Waves - Light waves. The periodic table and materials - Mendeleev principles and reactivity Structure and function of living organisms - The skeletal and muscular systems	Rotation: Swimming, netball, basketball, badminton, football, rugby, hockey	Worship at home Places of worship	My free time activities	The British Empire: To what extent did it bring progress?	Water cycle Fluvial processes River landforms Engineering strategies to manage flooding	HTML and Web Page Design using TAGS. Understanding how to produce linked pages to form a help page on producing a website.	Rock school: Rock n' Rol in the 1950's	Portraits Drawing from life Photography Photoshop	Food: Nutrients: functions, food sources, excess/deficiency Functions of ingredient in bread making (yeast, CO2, fermentation) Functions of ingredients in pastry making (shortening) Functions of ingredients in batter mixture (aeration) Functions of ingredients in sauce/curd making (gelatinisation)
	Half Term 2	Gothic Fiction: Creative Writing	Working in the cartesian plane Representing data Tables and probability	Energy changes and transfers Structure and function of living organisms - Nutrition and digestion	Rotation: Basketball, hockey, swimming, football, badminton, rugby	Festivals of Light Chrisitan Festivals over time	Technology and hobbies	The British Empire: To what extent did it bring progress?	International tourism Consequences of tourism National parks Glaciation	Spreadsheets with formulas, graphs and charts. Creating Add, Subtract, Multiply, Divide, Average and IF Statements. Creating Pie, Bar, Column, Line charts and graphs	Music through time: The Classical Period: 1750 - 1820	Portraits Drawing from life Photography Photoshop	
	Half Term 3	Social Media: Reading, non-fiction texts	Brackets equations and inequalities Sequences Indices	Structure and function of living organisms – Health Electricity and electromagnetism – Resistance	Rotation: Swimming, football, fitness, rugby, hockey	Pilgrimage in Abrahamic Religions Pilgrimage in Indian Religions	Organising outings	Britain, the slave trade and the industrial revolution, was progress tainted?	History of Africa Biomes in Africa Urban opportunities Challenges in the Horn of Africa	Program using code, including Input, Variables IF statements. Creating a quiz with a scoring system and feedback	Music Around the World: British Culture and Musicals.	Text in Art Stencil Graffiti Collage	Product design: forging animals Health and safety Manufacturing processes Metal work Tools Plastic work tools Material: metal Material: plastics Material properties Environmental impact Client specification. Product evaluation
	Half Term 4	Social Responsibility: Transactional Writing	Fractions and percentages Standard index form Number sense	Atoms, elements and compounds - Elements and compounds Electromagnets and magnetism – Magnetism	Rotation: Badminton, rugby, swimming, fitness, outdoor adventures, cross country, hockey	Rites of Passage: Marriage and Growing Up	My food habits	Equality in America – The Civil Rights Movement	Population increase and control migration	Understand the internal components of a computer and the external ports. Upgrade a computer, replace faulty parts, external devices and install software	Rock school: Rock n' Roll: 1960's.	Text in Art Stencil Graffiti Collage	
	Half Term 5	Literature from other cultures: Reading Study of a range of poems, diverse voices	Angles in parallel lines and polygons Area of trapezia and circles Line symmetry and reflection	Earth and atmosphere - Earth structure Energy - Calculation of fuel uses and costs	Rotation: Athletics, rounders, tennis, softball	Keeping Safe: RSE and Safety	Health habits	Equality in America – The Civil Rights Movement	Extreme weather types and consequences	Internal and external computer parts. Animation Creating a gif animation of a sailing boat	Music through time The Romantic Period: 1820-1900.	Masks Cutout Relief Character design	Engineering: Storing possessions Health and safety Manufacturing processes Woodwork Tools Material: timber Material: plastics Application of wood joints Use of modelling software Use of cad CAM Client specification. Product evaluation
	Half Term 6	Shakespeare's 'Romeo and Juliet': Reading	The data handling cycle Measures of location	Interactions and interdependencies – Interdependence STEM Project - Pollution and sustainability	Rotation: Softball, tennis, cricket	Crime: Drugs and Alcohol, Gang Crime	Daily routine and cultural capital	The Development of Voting Rights in the UK	Climate in the Middle East Mineral extraction Hot deserts Impacts of tourism	Animations and animation types including timings. Creating automatically run animation suitable for the web.	Music Around the World: Samba and South America.	Masks Cutout Relief Character design	

Year 9	Half Term 1	Dystopian Fiction: Reading of 'Daz 4 Zoe'	Straight line graphs Forming and solving equations Testing conjectures	Material cycles and energy - Cellular respiration and photosynthesis Waves - Observed waves, energy and waves. Chemical reactions - Metals and non-metals	Rotation: Swimming, netball, basketball, football, fitness, rugby, netball	Nature of God: Is God Knowable? Is God Immanent?	Travel, tourism and holidays	The First World War and the interwar years	Spatial patterns of crime Causes of crime and conflict Preventing development	Databases looking at fields, records, tables, form, buttons, queries, reports, and macros. Creating a database and performing queries which display the correct results.	Rock school: Cover Versions Popular Music Performance Project	Exploring animals Life Drawing Wire sculpture	Food: Define the term cuisine Origins of dishes Food provenance (grown, reared, caught) Identify food from certain seasons Advantages/ Disadvantages of seasonality Researching suitable recipes to meet a brief
	Half Term 2	Dystopian Fiction: Creative Writing	Three dimensional shapes Construction and congruency Numbers	Genetics and Evolution- Inheritance, chromosomes, DNA and Gene Energy changes and transfers - Heating and cooling. Forces - Contact forces, balanced and unbalanced forces and gravity	Rotation: Basketball, football, swimming, netball, badminton, hockey	Is God Just? Evil and Suffering.	Travel, tourism and holidays	Hitler and the Rise of the Nazi	Measuring development Causes of uneven development Consequences of uneven development Reducing the development gap	Interactive Touch Screen Kiosk System Interaction, images, sound, accessibility, and animation. Creating a range of buttons and interactive elements.	Music through time: The Twentieth Century: Minimalism.	Exploring animals Life Drawing Wire sculpture	
	Half Term 3	Extreme Experiences: Reading, non-fiction texts	Using percentages Maths and money Deductions	Genetics and evolution – Biodiversity Chemical reaction and energetics - Types of reactions and exo/endothermic	Rotation: Swimming, fitness, hockey, rugby, football	Creation and the environment	School timetable, facilities and teachers	Hitler and the Rise of the Nazi	Characteristics of tropical rainforests Plant and animal adaptation Consequences of deforestation Sustainable management of deforestation	Produce a program using code Variable IF statement, decision making, loops and saving to an external file. Adding feedback, the ability to save to the quiz.	Music Around the World: Film Music.	Still life Painting Photography 3D design	Product design: light box Health and safety Manufacturing process Electronic Tools Electrical circuits 2D Design modelling software Use of CAD CAM Working with multiple materials to produce a final product
	Half Term 4	Homelessness: Transactional Writing	Rotation and translation Pythagoras theorem	Earth and atmosphere - Earths resources Pressure in fluids and Forces – Work	Rotation: Badminton, rugby, swimming, fitness, cross country, outdoor activities	Equality in Worldwide Religion. PREVENT and Extremism	School timetable, facilities and teachers	The Holocaust	Rural to urban migration Opportunities and challenges linked to urbanisation Greenfield and brownfield sites	Understand how a computer uses Binary. Count in binary Perform calculations in binary.	Rock school: Songwriting Popular Music Composition Project.	Still life Painting Photography 3D design	Writing a design specification Evaluating against a design specification identifying how to improve the next product.
	Half Term 5	Conflict poetry: reading	Enlargement and similarity Solving ratio and proportion problems Rates	Bridging Unit 1 - Cell Biology Bridging Unit 1 - Energy	Rotation: Athletics, rounders, tennis, softball	The Holocaust: Anti-Semitism	Relationships I have and how we socialise in our free time	Conflict after the Second World War	Human and natural causes of climate change Consequences of climate change Adaptation and mitigation Sustainability	Digital Graphics Editing, looking at Manipulating and exporting images. Understanding Raster and Vector	Music through time: The Twentieth Century: Film Music.	Abstract art Exploring music Drawing machine Independent work	Engineering: Automata Health and safety Manufacturing process 2D Design modelling software Use of CAD CAM
	Half Term 6	Shakespeare's 'The Merchant of Venice: Reading'	Probability Algebraic graphs	Bridging Unit 2 – Organisation Bridging Unit 2 - Atomic Structure	Rotation: Cricket, tennis, rounders, softball	Responses to the Holocaust. And Genocide Today	Relationships I have and how we socialise in our free time	Conflict after the Second World War	Biomes The history of Russia Human and physical features Natural resources	Manipulate images Raster and Vector. Creating a portfolio of work.	Music Around the World: Reggae and Caribbean Music.	Abstract art Exploring music Drawing machine Independent work	Writing a design specification Evaluating against a design specification identifying how to improve the next product.

		Options												
		Art	Computer Science	Design Technology	Engineering	Enterprise and Marketing	Graphics	Health and Social Care	Food and Cookery	iMedia	Music	Photography	RE	Sports Studies
		AQA	OCR	EDEXCEL	NCFE	OCR	AQA	OCR	NCFE	OCR	BTEC	AQA	AQA	OCR
Y10	Half Term 1	Structures Starting Point	1.1 Systems Architecture including: Architecture of the CPU, CPU Performance and Embedded Systems. Programming recap from KS3	Timbers and how we work with them	Engineering Disciplines and reading engineering drawings	RO68 Learning to design a business proposal TA1 Market Research	Starting Point	R033: Growth and development through a life stage	Health & safety relating to food, nutrition and the cooking environment	RO93 Creative iMedia in the media industry. TA1- The Media Industry including products, sectors and jobs roles. RO97 Learning to create a media system including Websites, Kiosk and Games.	Component one: Exploring musical products and styles LOA: Demonstrate an understanding of styles of music LOB: Apply understanding of the use of techniques to create music Component two: Musical skills development. LOB: Apply development processes for music skills and techniques.	Starting Point	Christianity introduction	Issues which affect participation in sport. Provision for different types of outdoor and adventurous activities in the UK.
	Half Term 2	Research Artist study	1.2 memory and Storage including: Primary and Secondary Storage, Units of storage, Data Storage and Compression. KS4 Programming		CAD and hand drawn engineering drawing	RO68 How to identify a customer profile. TA2 How to identify a customer profile TA3 Start to develop a product proposal	Research Artist study Basic Photoshop	R033: Impact of life events	Food legislation and food provenance	RO97 Interactive Digital Media Assignment: TA1 Planning Digital Media, creating logos, mind maps, mood boards, wireframes etc.	Component one: LOA/LOB Component two: LOB Apply development processes for music skills and techniques	Research Artist study Basic Photoshop	Christianity beliefs	The implications of hosting a major sporting event for a city or country. Equipment, clothing and safety aspects of participating in outdoor and adventurous activities.
	Half Term 3	Experiments Life drawing	1.3 Networks, Connections and Protocols including Network Types, Network Topologies, Wired and Wireless Networks, Protocols and layers. 2.2 Programming Fundamentals, Data types and techniques.	Materials and their properties	Applied maths in Engineering and Material properties	RO68 Complete the assignment to design a business proposal TA3 Complete the development of a product proposal	Layers Text	R033: Research and recommend individual support to meet individual need	Food groups, key nutrients and a balanced diet	RO97 Interactive Digital Media Assignment TA2 – Create the product (website or kiosk system) and creating animations, videos, sounds and creating logos.	Component one: mini assessment.	Framing techniques	Christianity practices	R184: The role of sport in promoting values. R187: Plan for and be able to participate in an outdoor and adventurous activity. R187: Evaluate participation in an outdoor and adventurous activity.

	Half Term 4	Experiments Printing painting	1.4 Network Security including threats to computer system and networks as well as identifying and preventing vulnerabilities. 2.3 Producing Robust Programs including defensive design and testing.	Core Content and Lighting the world project	Engineering tools and production planning	TA4 Review whether a business proposal is financially viable. TA5 Review the likely success of the business proposal.	Photo-manipulation	R032: Rights and settings	Food groups, key nutrients and a balanced diet	Complete the RO97 Interactive Digital Media Assignment. TA3 – Evaluating the product again the client brief and suggest improvements.	Component two: LOA Demonstrate professional and commercial skills for the music industry	Photo-manipulation	Islam beliefs	R184: The role National Governing Bodies (NGBs) play in the development of their sport. R187: Plan for and be able to participate in an outdoor and adventurous activity. R187: Evaluate participation in an outdoor and adventurous activity.
	Half Term 5	Photography trip	1.5 System Software including Operating Systems and Utility Software. 2.4 Boolean Logic	Core Content and Lighting the world project	Sustaining nature project	RO67 Enterprise and Marketing Concepts 1.1 Characteristics of Successful Entrepreneurs 1.2 Potential Rewards for Risk Taking. 1.3 Potential Drawbacks RO69 Learning to market and pitch a business proposal. TA1 Develop a brand identity to target a specific customer profile.	Digital Drawing	R032: Person centred values.	Factors affecting food choice	RO94 Learn Digital Graphics using graphics tables and editing software to create logos and digital products such as graphical blogs, book covers, games cover, posters etc.	Component two: LOA/LOB	Producing an outcome independent study	Islam practices	R184: The use of technology in sport. R185: Key components of performance. R185: Applying practice methods to support improvement in a sporting activity Teaching content.
	Half Term 6	Collage	1.6 Impact of Digital Technology including ethical and legal impacts, cultural and environmental impacts, and computer science legislation. 2.5 Programming Languages and IDE's Mock Exam 1	Non-exam assessment	Sustaining nature project	RO67 Enterprise and Marketing Concepts 2.1 -2.6 Market research to target a specific customer. RO69 Assignment to market and pitch a business proposal. TA2 Create a promotional campaign for a brand and product.	Producing an outcome independent study	R032: Communication	Food preparation, cooking skills and techniques	RO94 Start Digital Graphics Assignment. TA1 - Develop a visual identity. Looking at company names, logos and strap lines, Creating a branding, designing a concept and making a logo. TA2 – Plan digital graphics for a product. including image properties photo editing, mood boards, mind maps, visualisation diagrams.	Component three: Responding to a Music Brief AO1 Understand how to respond AO2 Select and apply musical skills AO3 Present a final musical product AO4 Comment on the creative process and outcome Component one and two revision/assessment prep:	Photography trip Producing a photo-essay	Marriage and the family	R184: Revision of TA1-5 Internal examination. R186/187: NEA Assessment (submit for moderation). R185: Key components of performance. R185: Applying practice methods to support improvement in a sporting activity Teaching content.

Y11	Half Term 1	Independent study	<p>2.1 Algorithms including computational thinking, designing and creating algorithms with searching and sorting and pseudocode</p> <p>Programming Task – Washing Machine</p>	Non-exam assessment	Non-exam assessment	<p>RO67 Enterprise and Marketing Concepts 3.1-3.3 What make a product financially viable. 3.4-3.5 Enterprise and marketing concepts.</p> <p>RO69 Continue the assignment to market and pitch a business proposal. TA3 – Plan and pitch a proposal.</p>	Independent study	R032: Rights and settings. R034: Plan a creative activity.	Recipe amendment and menu action plans	RO94 Start Digital Graphics Assignment. TA3- Create a visual identity and digital graphics. Creating a logo and final product.	Component one and two assessment. Component 3; AO1 Understand how to respond; AO2 Select and apply musical skills; AO3 Present a final musical product; AO4 Comment on the creative process and outcome	Independent study	Crime and punishment	<p>R184: Exam revision of TA 1, 2 and 3 R185: Organising and planning a sports activity session R185: Leading a sports activity session</p>
	Half Term 2	Project one exam	<p>Theory Revision 1 – JvN and The Computer.</p> <p>2.6 Programming 3 Loops and extra practice.</p>	Non-exam assessment	Non-exam assessment	<p>RO67 Enterprise and Marketing Concepts 3.4-3.5 Enterprise and marketing concepts.</p> <p>RO69 Complete the assignment to market and pitch a business proposal and start to learn the exam RO67. TA4 – Review a brand proposal, promotional campaign and professional pitch.</p>	Project one exam	R032: Person centred values. R034: Deliver a creative activity and evaluate performance	Non-exam assessment	RO93 Exam Work TA1 –The Media Industry. By promoting on social media to develop your business. Take target audience and client requirements into consideration. Create and add Animation, Video, Photos and drawings.	Component one and two assessment; Component 3; AO1 Understand how to respond; AO2 Select and apply musical skills; AO3 Present a final musical product; AO4 Comment on the creative process and outcome	Project one exam	Religion and Life, War and Peace	<p>R184: Exam revision of TA 4 and 5 R185: Leading a sports activity session R185: Reviewing your own performance in planning and leading of a sports activity session</p>
	Half Term 3	Externally set task	<p>Theory Revision 2 – Networks and Binary.</p> <p>2.6 Programming 3 Extra Practice</p>	Non-exam assessment	Non-exam assessment	<p>RO67 Enterprise and Marketing Concepts</p> <p>TA 4.1-4.4 – Creating a marketing mix to support a product.</p>	Externally set task	Ro32: Communication R034: Therapies and their benefits.	Non-exam assessment	RO93 learn Exam Work Topic Area 2: Factor influencing product design. Revise	Component 3 Mock external assessment and revision	Externally set task	Targeted revision for Mock Exams based on pupil data	<p>R184: External examination R185: NEA Assessment (submit for moderation) R186/R187 - NEA Assessment</p>

	Half Term 4	Research experiments	Theory Revision 3 – Networks and Binary. 2.6 Programming 3 and Pseudocode	Non-exam assessment and exam revision	Non-exam assessment and exam revision	RO67 Enterprise and Marketing Concepts TA 4.5-4.10 – Creating a marketing mix to support a product.	Research experiments	R032: Safeguarding	Non-exam assessment and exam revision	RO93 Exam Work Topic Area 3: Pre-production Planning, including mood board, mind map, wireframes etc. Topic Area 4: Distribution considerations Revise	Component 3 External assessment	Research experiments	Mock Exam Walkthrough and Revision based on Mock Results	R184: Exam revision of TA 1-5 R185 and R186/R187 - NEA Assessment
	Half Term 5	Final exam	Theory Revision 4 – Control Systems and Boolean Final Exam	Exam revision / Final exam	Exam revision / Final exam	RO67 Enterprise and Marketing Concepts TA 5.1-5.3 – Factors to consider when starting up and running an enterprise. RO67 Exam revision.	Final Exam	R032: Revision	Exam revision / Final exam	RO93 Exam Work Topic Area 4: Distribution considerations Revision Areas Final Exam	Component 3 External assessment	Final Exam	Revision	R184: Exam R185 and R186/R187: NEA resubmission opportunity if required
	Half Term 6	Exams												