Year 11 Curriculum

Ambitious and Challenging
Broad and Balanced
Equality of Opportunity

	Maths	English	Science	RE	History	Geography	MFL	Music	PE	Technology	Art	Food	Drama	Computing
Term 1	**STAGE 4** Find the sum of angles in polygons. State values which round a number to 10, 100, 1000. Solve worded problems including negative numbers. Simplify expressions incl. single brackets & factorise. Solve worded problems involving all 4 operations. Solve comparison, sum & difference probs with vertical line chart, frequency polygons & diagrams, & pie charts. Solve worded problems involving FDP & ratio. Substitute FDP into functions & formulae MATHS WEEK **STAGE 7** Use compound measures. Factorise by finding the difference of two squares. Estimate by rounding to significant figures. Understand & use error intervals & truncating. Calculate & solve problems involving the surface area of prisms, spheres and pyramids Calculate averages from grouped frequency tables Understand & construct Venn diagrams including notation. Change the subject of a formula **STAGE 8** Expand multiple brackets & factorise quadratics (a>1). State the bounds for rounded numbers. Calculate the surface area of frustums. Construct, draw, calculate, read from & compare data in cumulative frequency diagrams & box plots. Construct & interpret histograms **STAGE 9** Substitute into composite & inverse functions Calculate with upper & lower bounds. Recognise, interpret & sketch exponential & trigonometric graphs. Use transformations on graphs. Sketch & interpret velocity/ time graphs. Calculate with surds including rationalising the denominator. Apply the sine & cosine rules; use sine rule for area	**Macbeth** Develop speculative responses. **Reading Non-Fiction** Exposure to a wider range of texts. **Places Poetry** Analysis focused on a theme. **Love Poetry** Understand different perceptions of love. **Narrative & Transactional Writing** Consolidation of writer's craft. *Lancaster University seminar. SMSC: Violence/Guilt.*	Homeostasis Atmosphere of the Earth Using Earth's resources Waves *Peer review, presenting data and observations* GCSE Science Live	GCSE Judaism: Practices (recap and finishing module) GCSE Catholic Christianity Philosophy & Ethics: Arguments for the existence of God including revelation, visions, miracles, religious experiences, the Design Argument, the Causation Argument. The challenges of the problem of evil and suffering and responses to it. **Skills -** To be able to explain and critically evaluate arguments for and against the existence of God using examples *Jewish Speaker Q&A. Speaking and listening skills.*	Completing AQA GCSE Paper 2: the history of surgery, medicine and public health from Ancient Greece to the 21st Century. Formal 1 hour exams in each half-term. GCSE exam questions weekly for HW. Begin AQA GCSE Paper 2 Elizabethan England topic. *The impact of the Renaissance on European culture.*	**Paper 1** Rivers **Paper 2** The Changing Economic World Mock exam *Place: Jamaica how tourism has helped development/Nigeria Study of an NEE. Fairtrade, NGOs, Aid and debt.*	**FRENCH** Travel and Tourism. Poverty, homelessness, charity work. Environment **Skills** sequencers pluperfect -150 word Q, asking questions with question words, using the perfect & imperfect together **GERMAN** Travel and tourism. Social issues—environment, poverty, homelessness, charity work. **Skills** Connectives. Time, manner, place word order. **SPANISH** Marriage and Partnership, Travel and Tourism **Skills** Sequencers, asking questions with question words, using the preterite and imperfect together, weather.	Composition based on briefs for Unit 2. Performance preparation and finalisation. The Concerto Through Time unit. *Performing, composing and Listening and Appraising. (Links 7 tm2 vocal and ensemble work; 7 tm3 instrumental skills; 8 tm2 instruments; 8 tm3 instrumental skills; yr 9 performance)*	GCSE Theory Term 1 & 2- Component 2: Health & Performance Numeracy skills, e.g. calculating dietary energy intake / energy balance Data analysis, e.g. interpreting graphical representations of fitness and physical health trends, and sports participation rates. Literacy skills, e.g. 9 mark questions evaluating the advantages and disadvantages of commercialism in sport. Term 3 Various revision activities. GCSE Practical Various ongoing assessments & practices in various individual & team activities, as per Edexcel spec.	DESIGN, MAKE & EVALUATE FINAL NEA (50% of final grade) Design and make a product using the iterative design process. (PA, specification, brief, customer profile, initial ideas, idea development, CAD, CAM, manufacturing, RoM, evaluation)	Natural forms component 1 Tasks/targets every lesson. Develop ideas from a design brief 4 Assessment objectives need to be evident throughout their work. Research, experimenting/exploring.	NEA 1 - 15 % of final grade Science task	Unit 1 cont…. Written components to be completed—portfolio and evaluation Unit 2—Research into scripts to begin *Theatre Trip to Runshaw College Performance at Blackburn College Christmas Carol Blood Brothers Open Evening Production*	CS Logic Languages & Data representation Logic diagrams and truth tables Binary & hexadecimal ASCII Images, sound & compression
Term 2	**STAGE 4** Solve problems involving four operations on fractions. Calculate with roots & positive integer indices; estimate roots of decimals. Recognise shapes from plans & elevations. Justify if a number is in a sequence. Solve problems involving percentages of amounts. Understand y=mx+c Compare & solve problems - volume of cubes & cuboids Runshaw Maths challenge **STAGE 7** Solve growth & decay and original value problems. Calculate using negative indices. Find a linear equation given two coordinates. Find the equation of perpendicular lines. Construct & use tree diagrams for events without replacement. Apply the product rule for counting Solve problems using trigonometry. Calculate the volume of spheres & pyramids **STAGE 8** Estimate powers & roots of positive numbers Identify & understand surds. Draw, sketch & interpret velocity/ time graphs. Calculate gradients as rates of change. Convert recurring decimals to fractions using proof. Use Pythagoras' theorem & trigonometry in 3D **STAGE 9** Calculate all four operations on algebraic fractions. Solve using algebraic fractions. Recognise & solve geometric progressions & Fibonacci sequences. Solve quadratic equations that need rearrangement using the formula, completing the square & factorising including those when a>1	**Unseen Poetry** Independent application of poetic analysis. **Reading Fiction** Exposure to a range of fiction texts and writing styles. **Skills Audit** Reflection on GCSE Language and Literature study. *Theatre Group Visit (Macbeth and An Inspector Calls.*	Ecosystems and Interactions Magnetism and Electromagnetism Space and stellar evolution(Separates cience) *Translate data, analyse mathematically, and check accuracy & precision, use sampling techniques.* Spectroscopy in a suitcase	GCSE Catholic Christianity Philosophy & Ethics: Purpose & importance of marriage, sexual relationships, family, Catholic support for the family, family planning, divorce, equality of men & women, gender prejudice, role of women in the Church. **Skills** Explain Catholic teachings on marriage & family using sources. Critically evaluate Catholic teachings against secular teachings. *Speaking and listening. Learning to appreciate other points of view and ways of life.*	Completing AQA GCSE Paper 2 Elizabethan England topic. Revision and exam practice. *The 'Golden Age', Shakespeare's Globe, exploration.*	**Paper 2** The Changing U.K. Economy The Challenge of Resource Management *Place: U.K. how the U.K. economy is changing U.K. issues relating to work/infrastructure*	**FRENCH** Career choices and ambitions. Technology in everyday life. Marriage & Partnership **Skills** Revision of the futur/cond tenses - Grâce à **GERMAN** Career choices and ambitions Education post-16. Technology in everyday life—social media **Skills** Comparatives and superlatives. **SPANISH** Environment: Global issues. Career choices and ambitions. Poverty & Homelessness **Skills:** subjunctive, si clauses - Revision of the future/cond tenses General consolidation	Performance exam completed. Compositions completed. Listening revision. *Listening and appraising. (Links: 7 tm2 notation; yr 8 world music; yr 10)*	Trips: Kayaking course (residential) —Tower Wood, Windermere. Biannual ski course (residential) — Europe. Easter HT. Climbing course — Rock and River, Chorley. May BH weekend. GCSE CORE Pupils involved in a range of activities that develops personal fitness and promotes an active, healthy lifestyle. Invasion games - football, netball, basketball, handball, dodgeball	DESIGN, MAKE & EVALUATE NEA (50% of final grade) Design and make a product using the iterative design process. (PA, specification, brief, customer profile, initial ideas, idea development, CAD, CAM, manufacturing, RoM, evaluation) Completion by February half term. **Revision:**	Natural forms component 1 Exam question given out component 2 Their intentions. Observational studies, Primary and Secondary. Techniques/materials. Annotations.	NEA 2—35% final grade Revision from February. Covers all of the sections covered during year 10	UNIT 2 Prep—visiting examiner Artistic Intentions FINAL PERFORMANCE	NEA Programming Project Pupils conduct research and programming tasks to provide a solution to a problem
Term 3	**STAGE 4** Solve one & two-step equations using balancing - negative & fractional integer solutions including brackets. Describe a rotation, translation & reflection on a grid. Write a ratio in the form 1:n & n:1. Calculate averages from a frequency table. Use lists to find probabilities. Convert between metric & imperial mass & length units Maths inspirational trip **STAGE 7** Solve more difficult equations including fractions & negatives. Solve simultaneous equations Understand, use & calculate with vectors. Draw & describe enlargements involving negative scale factors Recognise & plot reciprocal graphs **STAGE 8** Use direct & inverse proportion using 'k' Set up & represent inequalities on grids. Use & prove circle theorems. Solve quadratic equations using the formula, completing the square & factorising including those when a>1. Use trial & improvement to solve equations **STAGE 9** Solve quadratic inequalities in one variable & represent the area on a graph. Solve simultaneous equations when one is linear & the other quadratic Apply vector methods for proofs including parallel lines & recognising when three or more points are co-linear	N/A	Revision including 6 mark questions, Past paper booklets, Powerpoint production and Seneca learning. *Communicate scientific rationale for investigations using vocabulary, interconversion of units.* Unilever	N/A May exams for RE	Revision and exam practice. Easter and May Half-term revision days. 17 weeks of after-school and lunch revision Jan-June. *July tour of Krakow and Auschwitz to enrich study of the Holocaust.*	**Paper 3** Pre-release material Revision EXAM *Pre-release is based on a Geographical Issue*	**FRENCH** Revision and preparation for GCSE examinations. **GERMAN** Revision and preparation for exams. **SPANISH** Culture & Festivals Revision and preparation for assessment	Revision of all Areas of Study. LISTENING EXAM *Listening and appraising. (Links: All theory work from previous learning; yr 10)*	Striking & fielding games—cricket, rounders, softball Net games— badminton, table-tennis, volleyball Individual activities—fitness, dance, athletics, gymnastics, trampolining, golf, walking Pupils are given opportunity to enhance teamwork, officiating and leadership skills.	REVISION (50% of final grade) Core technical principles. Specialist technical principles Design and make principles	Natural forms component 1 Exam controlled 10 hours Connections and understanding Relating to their chosen culture/artist. Design ideas/final designs – person	REVISION (50% of final grade)	Revision for UNIT 3 written component, director, producer, performer Théatre Review	Revision Exam paper skills Past questions, structure, commands marking