Tutor time: **Monday**- Independent revision **Tuesday**- Whole year collective worship (assembly) **Wednesday**- Maths or literacy puzzle

Thursday- Wellbeing session/Quiz or competition **Friday-** Newsround and general issues/debate

Year 10 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 4S Find angles in triangles & quadrilaterals Understand estimating & use approx. to check answers Add, subtract, multiply & divide with negative integers Know basic algebraic terminology & collect like terms Short division writing remainders as fractions & decimals Construct & interpret vertical line chart, frequency polygons & diagrams, & pie charts. Convert less familiar FDP including greater than 1 Substitute into functions MATHS WEEK STAGE 6 Solve problems involving perimeter of circle sectors. Understand congruency & similarity. Work with area & volume of similar shapes. HCF & LCM using prime decomposition Find the nth term & quadratic sequence given nth term. Work with bearings; calculate using exterior angles Categorise using suitable diagrams to obtain information about sets of data; use stratified sampling Apply the laws of indices for all integers 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	**War Poetry** Complex analysis of poetry. **Reading Fiction** Language inferences. **Narrative Writing** Plausible story arc **A Christmas Carol** Analysing historical literature. Visiting Speaker (Ex-Marine). Theatre Group Visit (ACC). SMSC: Charity.	Infection and Disease Chemical Changes Electricity & static change Bioenergetics Developing explanations, explaining applications of science Iceland, GCSE Science Live, Women in engineering	GCSE Catholic Christianity: Practices—Sacraments, liturgical vs non-liturgical worship, funerals, prayer, popular piety, pilgrimage, Catholic social teaching, evangelism. **Skills -** Being able to explain signs and symbols of worship. To understand and explain how worship can have an impact on the life of a believer using examples. To evaluate the impact of different forms of worship. Parish priest show and tell on sacred vessels and key concepts. Q&A.	AQA GCSE Paper 1—Conflict: the causes, events and end of WW1. Formal 1 hour exams in each half-term. GCSE exam questions weekly for HW. Inspire pupils to think critically about causes of conflict	Consolidation of Coasts from Year 9 **Paper 1** Tectonic Hazards Weather Hazards Climate Change Place: Chile/Nepal/Philippines/U.K. Effects of hazards in areas of contrasting wealth (LICs v's HICs) Climate change—local actions/global impacts	FRENCH Relationships with family/friends Home, ideal home & town, festivals **Skills** Idiomatic reflexive verbs, Comparatives & superlatives.Adjectives, negative constructions Introduction of the conditional tense Photocard, 40 & 90 word writing Q, RP, PC SPANISH Relationships with family & friends Home & local area **Skills** Reflexive verbs, Comparatives, preterite tense, key present tense verbs Adjectives, negative constructions, Imperfect tense GERMAN Relationships family & friends.Home, town, region & neighbourhood **Skills** Accusative case. Definite & Indefinite articles. Present tense Prepositions with dative case.	Reinforcement of musical elements in depth and application of these in own work (performance and composition) Exploring higher level performance skills. Introduction to using sophisticated music technology for composition. *Performing, composing and evaluating. (Links 7 tm2 vocal and ensemble work; 7 tm3 instrumental skills; 8 tm2 instruments; 8 tm3; yr 9)*	GCSE Term 1 & 2- Component 1: Fitness & Body Systems Numeracy skills, e.g. calculating heart rates, training thresholds, plotting graphs Data analysis, collecting and interpreting fitness test results, making comparisons. Literacy skills. 9 mark questions comparing and justifying most appropriate use of training methods for different sports performers. Term 3 - Component 3: Personal Exercise Programme Planning a personal exercise programme, considering personal fitness levels, impact on sporting performance. Carrying out & monitoring PEP, & evaluating overall effectiveness. CORE Students follow an options programme that offers ***complex and demanding physical activities***. Options include: Invasion games - football, netball, basketball, handball, benchball, dodgeball Striking & fielding games—cricket, rounders, softball Net games—badminton, table-tennis, volleyball Individual activities—fitness, dance, athletics, gymnastics, trampolining, golf, walking	DESIGN, MAKE & EVALUATE PARTY PACK Design & make a range of items for a child's party pack using the iterative design process. (PA, specification, brief, initial ideas, CAD, CAM, vacuum forming, mould manufacture, RoM, evaluation) **Theory:** Selection of materials & components, forces & stresses, ecological & social footprint, sources & origins of materials, using & working with materials, stock forms, types & sizes, scales of production, specialist processes.	Identity/Relationships component 1 Develop ideas from a design brief. 4 Assessment objectives need to be evident throughout their work. Research Experimentation Practical Skills. Studying different cultures/artist's in more depth.	Food Commodities (origin, uses characteristics, nutritional values) Nea 1 Science Mock Principles of nutrition (Macro / Micro, trace elements, NSP , Water. Practical— Soup , Chicken Fricasse, Food prov , focus on cultural , NEA 2 Mock on street	GCSE intro... Introduction to course, breakdown, initial assessments, presentations, UNIT 1,2,3 whirlwind overview Practitioners—Brecht, Stanislavsky, TIE	CS Algorithms & Practical programming skills *Higher level programming skills :* Searching, sorting & pseudocode Iteration & expressions Arrays, lists & files iMEDIA Creating digital graphics Purpose & properties of digital graphics Planning the creation of DG Create digital graphics
Term 2	STAGE 4S Four operations on fractions; compare fractions >1 Recall squares, cubes & roots of numbers up to 15 Construct plans & elevations of shapes Find the nth term & linear sequence given nth term. Calculate percentages of amounts incl. with calculator Plot linear graphs & find equations. Draw & interpret real-life, conversion & distance/ time graphs. Calculate volume of cubes & cuboids STAGE 6 Solve problems including four operations on mixed numbers. Solve problems involving area of circle sectors. Decide which average is most appropriate to use Sketch & interpret real life graphs. Expand double brackets & factorise quadratics (a=1). Interpret & use ratio & fractions in context & graphically 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	**Transactional Writing** Adapt tone and register to suit a range of purposes. **Nature Poetry** Comparing poems thematically and considering poetic devices. Theatre Group Visit (AIC). Cardinal Newman Seminar.	Bioenergetics Rates of Reaction Atomic Structure and Radiation Inheritance and Genetics Ethical issues, , Risk– perception and evaluation, STIs, The Island, Bond energies (Manchester Uni.)	GCSE Catholic Christianity: Sources of Wisdom & Authority The Bible,Magisterium, Vatican II, The Church as the Body of Christ, the four marks of the Church, Mary, Sources of ethical decision making. GCSE Judaism: Beliefs and Teachings - The nature of the Almighty, shekhinah, the messiah, covenant at Sinai and with Abraham, Pikuach Nefesh, the mitzvoth, life after death. **Skills –** Identify/explain the importance of different sources of authority. Evaluate how useful they are to believers. Key teachings in Judaism.	AQA GCSE Paper 1—Germany 1871-1945. Formal 1 hour exams in each half-term. GCSE exam questions weekly for HW German culture—Weimar art, architecture, music	**Paper 2** The Urban World-Rio case study Urban Change in the U.K.-Bristol case study Place: Rio de Janeiro—opportunities and problems/Bristol—opportunities and problems of a multicultural city	FRENCH Free time activities. Healthy/ Unhealthy living **Skills** Regular & irregular present tense verbs Perfect tense Future tense SPANISH Free time activities. Healthy/Unhealthy living. **Skills** Consolidation of regular & irregular present tense verbs, preterite, imperfect tense, Future tense. Food & drink, modal verbs, habits. GERMAN Free time activitiesincluding film, TV and cinema. Healthy and unhealthy lifestyles.**Skills** Perfect tense. Um… zu clauses	Development of band skills. Extension of learning set pieces. Working on mash-ups and medleys—adding own sense of style to cover versions. *Listening, performing and arranging and evaluating. (Links: 7 tm3 mash-ups and medleys; 8 tm 1 blues; 8 tm3 instrumental skills; solo and ensemble performance at KS4)* Trip to see a musical available to KS4	DESIGN, MAKE & EVALUATE LAMP (Mock NEA) Design & make a mood lamp using the iterative design process. (PA, specification, brief, customer profile, initial ideas, idea development, CAD, CAM, electronics, manufacturing, RoM, evaluation) **Theory:** Surface treatments & finishes, new & emerging technologies, energy generation & storage, developments in new materials, systems approach to designing, mechanical devices,	Identity Relationships component 1 Their intentions. Observational studies Primary and Secondary. Techniques/materials Annotations. Exploring and experimenting/skills	**Diet and Good Health**– Energy Requireements(BMR, PAL CHD), Calculate energy and nutritional values of meals **The science of food**-The effect of cooking on food- why is food cooked, food spoilage, preservation. Practical–	Mock UNIT 2 Theatre in Performance, Characterisation, physical theatre, melodrama, script cutting, Duologues, artistic Intentions, character motivation, hot seating, role on the wall	CS Purpose of CPU, VNA & registers Volatile and non volatile storage WAN, LAN, wired & wireless iMEDIA Creating digital graphics (cont.) Review of DG Amending & updating DG Skills of image and text manipulation
Term 3	STAGE 4S Solve one & two-step equations using function machines - negative & fractional integer solutions including brackets Rotate, translate & reflect more difficult shapes. Solve ratio & proportion problems Find the mean & mode of a set of numbers Systematically list combinations & find simple probabilities Use a calculation to find the answer to similar calculation Construct & interpret maps & scale drawings Maths inspirational trip UCLAN additional maths STAGE 6 Substitute & derive difficult formulae Construct & use tree diagrams for events with replacement. Construct & solve linear equations with unknowns on both sides giving negative & fractional solutions. Solve problems involving loci & constructions Solve quadratic equations when a=1. Plot & interpret quadratic & cubic graphs including with a calculator 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 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	**Blood Brothers/An Inspector Calls (20th Century Play)** Conventions of a play and how the writer presents character and social issues. **Reading Non-Fiction** Comparison of unseen texts from two different eras. Theatre Trip. SMSC: Poverty/Relationships/Society.	Organic Chemistry Forces and Movement Chemical Analysis Quantitative Chemistry Experimenting accurately and safely, evaluation and improvements	GCSE Judaism: Practices - public worship, Tenakh and Talmud, food laws, prayer, the Shema and Amidah, rituals (birth, marriage, Bar Mitzvah), Shabbat, festivals (Rosh Hashana, Yom Kippur, Pesach, Shavuot, Sukkot), the synagogue. **Skills -** To explain religious practices including the differences between orthodox and reform Judaism. To evaluate the importance of religious practices.	Completing Germany. 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. July tour of Berlin to enrich the Germany topics.	**Paper 1** The Living World-Tropical Rainforests/Thar Desert **Paper 3** Fieldwork Place: Malaysia-TRFs/India –Thar Desert-issues and opportunities **Fieldwork**-Salford Quays and North West Coast-out of classroom learning in contrasting environments (urban and physical) .	FRENCH School description, comparing school life at home and abroad, school rules and pressures. **Skills** Si clauses(imp/cond/pres /fut) Revision of perfect tense to include reflexives SPANISH School description, comparing school life at home & abroad, school rules & pressures. **Skills** Si clauses(imp/cond/pres /fut), Modal verbs, two verb structure. GERMAN Education - life at school & college Marriage & partnership **Year 10 mock exams** **Skills** Future & conditional tense consolidation	Study Film Music Study World Music Start first official composition for Unit 2. *Composing, Listening and Appraising, performing. (Links: 7 tm 1 genres; 7 tm3 emotions; 8 tm2 film music; 8 tm3 reggae)* Visit to Beatles Story and BME. Opportunities for talented pupils to perform in Summer concert.	DESIGN, MAKE & EVALUATE LAMP & FINAL NEA Completion of mood lamp project. Introduction to NEA Pupils are to analyse each context & decide which they are going to focus on. Theory: Environmental & social challenge, the work of others, design strategies, communication of design ideas, prototype development, tolerances, specialist tools & equipment, specialist techniques & processes.	Identity/Relationships component 1 Connections and understanding relating to their chosen culture/artist. Design ideas/final designs –personal response. Practical Evaluation. Museum visit College visits.	Nea 2 Mock Where food comes from– Food provenance, food miles, food manufacturing, and packaging. Cooking and food prep– factors effecting food choice, techniques, developing recipes, allergies, intolerances Practical– Fish pie, crème Brule,	UNIT 1 - ACTUAL GCSE FINAL RESEARCH, PERFORMANCE, PRODUCTION, EVALUATION, PORTFOLIO	System software, security & Ethics Network threats Operating system and utility software Ethics, culture legislation & privacy iMEDIA Creating an interactive multimedia presentation Uses & properties of IMP Plan IMP Create & review IMP