Curriculum Information

Year 9

2021-22

Year: 9 Subject: Art Learning across the Year 2021-22

Curriculum Leader: Mr Javaid & Mr Madden

Email: s.javaid@holyfamily.waltham.sch.uk d.madden@holyfamily.waltham.sch.uk

Project 1	Project 2
Day of the Dead 1. Skills test - observational drawing of skull/flowers 2. Day of the Dead 3. Abstract flowers using acrylic 4. Skull Lino relief cutting 5. Lino printing 6. Stencil Flower cutting 7. Stencil spray painting/sponge and paint 8-10. Final piece development using chosen method	Surreal Room 1. Introduction to Surrealism 2. Oil pastel artist study 3. Kendario La Pierre Pen study 4. Rorscharch ink folding and blowing 4. Surreal collage 5. Drawing from collage 6. 1 & 2 point perspective drawing 7-8. Create a surreal room using watercolour
Homework	Homework
Frida Kahlo Analysis Day of the Dead rsearch page Day of the Dead skull design in colouring pencils Day of the dead skull and flowers collage Final piece development plan	Surrealism research and presentation Kendario La Pierre Analysis Find a surreal advert My brain is coming out of my ear poem illustration Surreal Room final piece development

Assessment Dates/Topics/Skills	Assessment Dates/Topics/Skills	
Mon 29th October - Mon 5th November	Mon 11th - 25th February	
Drawing	Drawing	
Mixed media control	Mixed media control	
Experimenting	Experimenting	
Planning	Planning	
Resilience	Resilience	
Resourcefulness	Resourcefulness	
Reciprocity Reflectiveness	Reciprocity Reflectiveness	

Autumn Term	Spring Term	
Challenge Tasks	Challenge tasks	
Create a digital art and/or face painted version of the skull and flower design inspired by day of the dead	Create a surreal photomontage in Photoshop using the tutorial	
Recommended Resources	Independent Learning Expectations	
Students MUST have: drawing pencils (2B/4B), rubber, sharpener, colouring pencils and a glue stick. Students could visit the following websites/galleries to develop ideas: Gallery websites: http://www.saatchigallery.com/ http://www.tate.org.uk/ http://www.nationalgallery.org.uk/ http://www.vam.ac.uk/	Students should spend at least 1 hour on homework which could include planning and research. Students could further their skills and understanding by researching artwork online or visiting local galleries. They could also attend art club which further enriches students whilst complimenting the art curriculum.	

Year: 9 Subject: Drama

Curriculum Leader: Miss Hampshire

Learning across the Year 2021-22

Email: s.hampshire@holyfamily.waltham.sch.uk

Course Details

Sept-Dec 2021/Jan-April 2022

Exploring Play Texts

Students will practically explore a play text and tasks will include line learning, directing, devising and performing, as well as developing technical theatre skills: designing lights, sound, set and costume.

Homework

Homework set will consist of line learning, research around the social, cultural and historical context of the unit of work and play. Students will complete documentary evidence of the process of their exploration, which will include research into topics/themes, Collecting stimulus for lessons and self and peer evaluation.

Assessment Details

Year 9 is a scripted performance focus (line learning, directing, devising and performing), as well as developing technical theatre skills (designing lights, sound, set and costume).

Sept-Dec 2021/Jan-April 2022

Challenge Tasks

- Research a practitioner's background and journey of developing their own theatre style, which is then applied in performance work and shared with the rest of the class.
- Attend local theatres to watch a range of performances, in order to be able to draw comparisons between performances.
- Watch live theatre via the National Theatre website in order to draw comparisons between different approaches to staging performance. www.nationaltheatre.co.uk
- Application of aspects learnt through the course of the year to the staging of the final performance assessment.
- Articulating the intended impact on the audience via how the role/performance has been staged.

Independent Learning Expectations/Recommended Resources

- To learn lines
- To research and contribute ideas to the developmental process.
- Students to take responsibility for their own learning by making sure they attend all lessons and catch up on any work missed by liaising with their subject teacher and using Google Classroom
- To manage deadlines and organise time appropriately.
- Attend as much live theatre as possible
- Watch clips on YouTube of a range of theatre companies to get ideas: Complicite, Push, Frantic Assembly
- Read range of theatre reviews in national newspapers
- The Stanislavsky Toolkit ISBN 978-1854597939
- The Brecht Toolkit ISBN 978-1854595508

Course Details

April - July

Scripted Performance

Students will perform either a monologue or a duologue to an audience.

Homework

Homework set will consist of line learning, character development, research around the social, cultural and historical context of the play.

Assessment Details

Year 9 is a scripted performance focus (line learning, directing, devising and performing), as well as developing technical theatre skills (designing lights, sound, set and costume).

Students will be graded on their performance using the Drama GCSE Component 2 Criteria/mark scheme.

Sept-Dec 2021/Jan-April 2022

Challenge Tasks

- Research a practitioner's background and journey of developing their own theatre style, which is then applied in performance work and shared with the rest of the class.
- Attend local theatres to watch a range of performances, in order to be able to draw comparisons between performances.
- Watch live theatre via the National Theatre website in order to draw comparisons between different approaches to staging performance. www.nationaltheatre.co.uk
- Application of aspects learnt through the course of the year to the staging of the final performance assessment.
- Articulating the intended impact on the audience via how the role/performance has been staged.

Independent Learning Expectations/Recommended Resources

- To learn lines
- To develop their character
- To design basic lighting/sound/set and costumes for their performance
- To research and contribute ideas to the developmental process.
- Students to take responsibility for their own learning by making sure they attend all lessons and catch up on any work missed by liaising with their subject teacher and using Google Classroom
- To manage deadlines and organise time appropriately.

- Attend as much live theatre as possible
- Watch clips on YouTube of a range of theatre companies to get ideas: Complicite, Push, Frantic Assembly
- Read range of theatre reviews in national newspapers
- The Stanislavsky Toolkit ISBN 978-1854597939
- The Brecht Toolkit ISBN 978-185459550

Year: 9 Subject: English/English Literature Acting Curriculum Leader: Mr G Parry

Email: g.nathanson-parr@holyfamily.waltham.sch.uk

Learning across the Year 2021-22

Course Details		
Autumn Term	Spring Term	Summer Term
Sherlock Holmes	World Voices: Literature of Other Cultures	Poetry
Students will read and critically	Students study a range of different thematically linked	Students will study a cluster of poems about
explore a Sherlock Holmes story.	fiction extracts and non-fiction articles/blogs, developing	love and relationships, exploring their
This unit will develop their	their skills in analysis of language, structure and	language and structure as well as learning to
reading skills by challenging	evaluation. Students then work to develop their own	make comparisons between poems.
them with 19th century	style of writing, aiming to mimic the forms and purposes	
vocabulary and syntax as well as	of writing that they study. We will be exploring a number	Students will also prepare for their summer
giving students a grounding in	of writers of different cultures, religion, and ethnicity in	exams and finally will read An Inspector
the important contexts of the	order to broaden our understanding of society and	Calls, a key GCSE text in preparation for
time.	literature available.	more detailed study in year 10.
Kindertransport	Introducing Shakespeare at GCSE Level	
Students will also study the play	Students will study a variety of extracts from	
Kindertransport by Diane	Shakespeare plays in order to prepare them for the	
Samuels. Students will explore	GCSE course by learning about Shakespeare's	
genre, dramatic devices and	language and the key contexts of the time he lived.	
begin to make closer links		

between the text and its social and historical context. They will also be taught to write giving their opinion on key topics explored in the play.		
Homework	Homework	Homework
A range of tasks to build students literacy skills with explicit links to requirements for the GCSE exams.	A range of tasks to build students literacy skills with explicit links to requirements for the GCSE exams.	A range of tasks to build students literacy skills with explicit links to requirements for the GCSE exams.
Assessment Dates/Topics/Skills	Assessment Dates/Topics/Skills	Assessment Dates/Topics/Skills
11th October: mini-essay on a reading task based on Sherlock Holmes.	Week beginning 10th January 2022: viewpoint writing task linked to Kindertransport	Week beginning 20th June-End of year exam: Language based assessment with a range of short and longer answer questions and a descriptive/narrative piece

Autumn Term	Spring Term	Summer Term
Challenge Tasks	Challenge tasks	Challenge Tasks
Create a timeline of 19th Century Literature Create a presentation, detailing how one of the aspects of context you have explored is evident in one of the text that you have studied.	Read the book that some of your extracts were taken from. Complete a portfolio of excellent writing for different forms and purposes.	Produce a 'no fear' guide to one of the poems Research one of the poets to be studied at GCSE. Create a 'Writing Revision Guide' for GCSE English Language.
Recommended Resources	Independent Learning Expectations	
English Department Reading list The School Library and Librarian BBC Skillswise (for literacy/punctuation skills) Literacy Skills booklet	At KS3 and KS4 we expect all students to read a variety of texts, both inside and outside of school. Students should read challenging material and use it to improve their own writing.	

www.senecalearning.com	Students should take what they have learned in class and use	
	it to move their own learning on to a different level, making	
	links between different subjects.	
	We expect all students to think creatively when they approach	
	reading and writing tasks.	
	We expect all homework projects to be managed and	
	presented to a high level of excellence, showing	
	time-management and a high level of effort.	

Year: 9 Subject: Product Design - Food/ Textiles Curriculum Leader: Ms Salahi

Learning across the Year 2021-22 Email: g.salahi@holyfamily.waltham.sch.uk

The students spend half of the academic year studying food, then rotate to textiles for the remainder of the year.

Autumn Term	Spring Term	Summer Term
Theory	Theory	Project Title - Fashion Illustration Project
Health and Safety — To: Understand the importance of health and safety in a food preparation area. Understand why it is important to maintain good personal hygiene and kitchen hygiene. Know and be able to apply the logical sequence in the washing up routine.	The Customer – To: Investigate different types of diet related health issues. Identify the dietary needs for the population who have special dietary requirements/needs (including food allergens, food intolerances, coeliacs disease, the elderly and religious/cultural needs).	Theory - What are the 6R's of Sustainability? - Can we use the 6R's to inform our actions and decisions regarding how we use textiles? - To understand the requirements of the design brief - What is fashion, its purpose and impact? - What is the role of a Fashion Designer? - The difference between couture and high street fashion. Practical - Manipulating paper and fabric to obtain a required shape/form when designing garments in dress making. - To design and create your own fashion illustrations; from initial ideas, to refinement of ideas, to selecting a successful final design.

Knife Skills and Cutting Techniques -

To: Identify parts of a knife and understand the safety rules related to using it safely.

Investigate a range of cutting techniques used in the preparation of vegetables.

The Customer –

To: Describe and apply the principles of The Eatwell Guide and relate this to diet through life.

To outline why dietary needs change throughout life stages.

To describe the main dietary requirements in each key life stage.

To investigate different types of diet related health issues.

Identify the dietary needs for the population who have special dietary requirements/needs (including pescatarians, *veganism. diabetics, healthy eating for children, adolescence / teenagers*

Practical Skills

To demonstrate and apply the principles of food safety and hygiene during food preparation and cooking.

Practical Skills

To demonstrate and apply the principles of food safety and hygiene during food preparation and cooking.

To demonstrate and apply the principles of personal and kitchen hygiene when preparing for, during and after the practical lesson.

To apply the basic knife skills whilst demonstrating the cutting techniques that can be used in the preparation of a range of vegetables.

To prepare and cook a range of dishes using various cooking methods e.g. baking, boiling, frying, Stir-frying.

To prepare and cook a range of dishes suitable to meet the needs of groups of people with specific dietary requirements/needs e.g. Coeliac Disease, The Elderly, Culture and Religious Beliefs, Food Allergies and Intolerances.

To demonstrate a range of skills during the preparation and cooking of food e.g. temperature control, use of the hob, chopping, peeling, binding, weighing, measuring, rubbing in, mixing, whisking, shaping, kneading, all-in-one cake making method, glazing, etc.

- How to use mixed media to add colour to your illustrations? Using water colours, oil pastels and colouring pencils to realise design intentions.
- How to take a design/illustration from 2D to 3D?
- How to use a mannequin to take a design from 2D to 3D, to realise a design idea?

To demonstrate and apply the principles of personal and kitchen hygiene when preparing for, during and after the practical lesson.

To apply the basic knife skills whilst demonstrating the cutting techniques that can be used in the preparation of a range of vegetables.

To prepare and cook a range of dishes using various cooking methods e.g. baking, boiling, simmering, frying, grilling.

To prepare and cook a range of dishes suitable to meet the needs of groups of people with specific dietary requirements e.g. Pescatarians Veganism, Diabetics, Healthy Eating for Children, Adolescence / Teenagers.

To demonstrate a range of skills during the preparation and cooking of food e.g. temperature control, use of the hob, chopping, peeling, binding, weighing, measuring, rubbing in, mixing, whisking, shaping, filleting, skinning, all-in-one cake making method, glazing, etc.

Dishes

- Carrot and coriander soup & French onion soup
- Curried Fish Tray Bake
- Chickpeas Spinach and Coconut Curry

Dishes

- Gluten-Free Fruit Scones
- Cottage Pie
- Noodle Stir-Fry
- Dairy and Egg-Free Lemon Cupcakes

 Falafel with Salad and Yogurt Dressing Beef Burger and Sweet Potato Chips Chocolate Brownies 		
Homework Cutting Techniques – Use the internet to research and watch videos on how to prepare different vegetables using a range of cutting techniques e.g. Brunoise, jardinere, julienne Research on the specific dietary requirements for individual groups: Reasons for the diet/need, health benefits, foods they can and cannot eat, suitable recipes/dishes. - Pescatarians - Veganism - Diabetics Healthy Eating for Children – Case study of a child Teenagers – Create a 2 slide PPT presentation on the dietary requirements of teenagers	Research on the specific dietary needs of various of individuals: - Coeliac Disease – Create an informative 3 fold leaflet to raise awareness on Coeliac Disease. - The Elderly – Question sheet - Culture and Religious Beliefs – Create an 'InstaFood Vlog' on one of your favourite cultural dishes you and your family eat at home. - Food Allergies and Intolerances – Create an A3 poster to raise awareness about Food Allergies and Intolerances	Homework - Bring two textile items from home which you no longer use. We will reuse and/or recycle these items in class. - Research on Alexander McQueen; complete worksheet - Create a moodboard of fashion garments created by folded paper/paper manipulation. Exploring different methods of creating shape/form - Collect a range of different papers to use in class for your paper manipulation fashion designs. This can be recycled or new paper. - Use the helpsheet and video tutorial to draw 2 examples of the 9 Head Fashion Figure technique. - Create 4 sketches of fashion figure poses; which demonstrate movement/action - Exploring fashion photography worksheet
Assessment Dates/Topics/Skills	Assessment Dates/Topics/Skills	Assessment Dates/Topics/Skills

Practical assessment (self & teacher)	Practical assessment (self & teacher)	- Practical skills assessed during the making of final product (peer/self/teacher assessed)
Assessment of h/wk task – Teenager PPT	Assessment of h/wk task – Instafood vlog / Food allergy poster Google form assessment	- Theory Knowledge Assessment (Google Forms Assessment) - Design assessment - Queen of Hearts Costume Design - Design assessment - Final Avant-Garde Fashion Design illustration

Autumn Term	Spring Term	Summer Term
Challenge Tasks	Challenge tasks	Challenge Tasks
 Practical and Presentation skills. Independent researching skills during homework tasks. Reach for the Stars activities Quality evaluations Writing a logical, sequential methods with times and health and safety/HACCP points 'Ask the expert' student led teaching Ability to modify recipes 	 Practical and Presentation skills. Independent researching skills during homework tasks. Reach for the Stars activities Quality evaluations Writing a logical, sequential methods with times and health and safety/HACCP points 'Ask the expert' student led teaching Ability to modify recipes 	 Use of high skills in practical work - will use a variety of construction and presentation skills with accuracy. Independent researching skills during homework tasks. Reach for the Stars activities Quality design work, annotations and evaluations 'Ask the expert' student led teaching Collaborative learning for final designs; collaborative production. Production leader and job roles selected to challenge and stretch
Recommended Resources	Independent Learning	
	Expectations	
Resources and practical lesson preparation information are provided by the department. Students need to bring ingredients and a container to take cooked food home. Useful websites https://www.foodafactoflife.org.uk/ https://www.bhf.org.uk/ https://www.nutrition.org.uk/ https://www.nbs.uk/	- Homework tasks are varied and cover a range of activities to develop independent learning skills Students interpret and fulfil tasks in their own way following a success criteria for each homework task Success Criteria points cover the following skills - Presentation and Design skills - Use of images and colour - Content/use of information; how informative is the piece of work Independent researching skills	

- Students are given practical cooking challenges	
- Students are given practical cooking challenges	1
to compete at home.	

Year: 9 Subject: French Curriculum Leader: Mrs N. Sheikh Oomar

Learning across the Year 2021-22 Email: ms.sheikhoomar@holyfamilycatholicschool.co.uk

Autumn Term	Spring Term	Summer Term
Recap Y8 key structures/ vocabTalking about preferences	 Work places, professions Talking about future plans / aspirations/ careers 	Talking about musical tastesFrancophone musicUsing direct object pronouns

 Talking about after school clubs and activities Using the present tense Describing your friends GCSE photocard description with more detail Relationships using reflexive verbs Birthday celebrations Using the perfect tense Using the future tense TONIC Extended reading tasks Cultural elements Noel 	 Using modal verbs - use of the verb vouloir Writing about an inventor Using questions and giving answers in 3 different tenses La Chandeleur / Easter cultural elements 	 Using the imperfect tense to talk about what you used to be like Comparing primary school life and secondary school Talking about how things have changed Interviewing a young refugee Film study about immigrant family to France - talking about social prejudice / racism La fête de la musique - 21st June
Homework	Homework	Homework
Sept '21 - Activelearn Module 1 - learn verbs 'avoir' and 'être' (full paradigm - Reading Module 1, 4p.11 & 5p.15 - Describe how to form the perfect tense in a diagram Oct'21 - Teachit video resource, Qu'est-ce que tu as fait le week-end dernier? - Senecalearning.com (4.1/ 5.1/ 5.2/ 6.1/ 6.2/ 7.3/ 7.6) - Authentic resources Reading/ minireader - Writing using 3 tenses - Flashcards	- Seneca	- Speaking assessment (picture description)
Assessment	Assessment	Assessment
Dates/Topics/Skills	Dates/Topics/Skills	Dates/Topics/Skills
	As autumn term	As autumn term

All redrafted written homework will be assessed	Module 2 assessments	Module 3 assessments
according to the new marking criteria for writing	Listening, Speaking, Reading & Writing	Listening, Speaking, Reading & Writing
based on the linear GCSE.		
In-class assessment Week beg 8th Nov, Module 1 Reading and translation		

Autumn Term	Spring Term	Summer Term
Challenge Tasks	Challenge tasks	Challenge Tasks
Take part in languages day	Research skills	Research and presentation skills
All lessons are planned according to what students must, should and could complete during the lesson. All lessons include a Thinking Hard task.	Students are expected to go over the classwork and homework and create their own revision mind maps / flashcards	Students should justify what they say using a variety of ideas and opinions to back up what they have said or written.
All students have PLCs that need to be constantly updated and referred to.	Students should justify what they say using a variety of ideas and opinions to back up what they have said or written.	Use of 3 tenses with accuracy
Students must continue to re-apply vocabulary in a new context.	Use of 3 tenses	
Students should justify what they say using a variety of ideas and opinions to back up what they have said or written.	Students must use flashy (unusual) vocabulary.	
Students must use flashy (unusual) vocabulary.		
All students have been provided with a Student Guide, which contains a progress		

review section, the marking criteria and strategies to improve.		
Recommended Resources	Independent Learning	
1. Collins Easy Learning French dictionary or Oxford Learner's dictionary: recommended for home use only as we have large stocks in school 2. www.pearsonactivelearn.com 3. www.senecalearning.com 4. www.languagesonline.org.uk 5. www.wordreference.com 6. www.bbc.co.uk/education 7. https://www.duolingo.com 8. Youtube: Cyprien 9. Youtube: Easy French 10. Youtube: Monsieur Pattinson	 To persevere with a task as per 1, 2, 3 Rule To update the <i>Progress Review</i> page after each redrafted written homework To correctly label the homework sheets with targets for improvement To act on targets set by the teacher to provide evidence of improvement To glue all worksheets in and ensure excellent presentation with dates and titles underlined To refer to the <i>Student Guide to Success</i> To develop grammatical skills To practise appropriate use of the dictionary and <i>wordreference.com</i> instead of resorting to Google translator To apply the <i>TONIC</i> strategy 	

Year: 9 Subject: Geography Curriculum Leader: Miss A Lippa

Learning across the Year 2021-22 Email: a.lippa@holyfamily.waltham.sch.uk

Autumn Term	Spring Term	Summer Term
 Population Global population growth Population Structure Ageing and Youthful Population Population Control Rivers	Global Water Issues Global Distribution of water Water supply around the world Water and conflict Impacts of water insecurity Lesotho and South Africa Dam project	Resources in the UK The UK energy mix Food in the UK Water in the UK
 Drainage Basins Long and Cross Profile River Processes Landforms in the upper course Landforms in the middle and lower course of the river River management 		
Homework	Homework	Homework
Assessment Dates/Topics/Skills	Assessment Dates/Topics/Skills	Assessment Dates/Topics/Skills
GCSE Style paper - Hazards	GCSE Style paper - Asia	GCSE Style Paper + Speaking and Listening Assessment - Issue Evaluation DME

Year: 8 Subject: Geography

Autumn Term	Spring Term	Summer Term
Challenge Tasks	Challenge tasks	Challenge Tasks

Wide range of research and challenge opportunities within the regional study of Asia Recommended Resources	 To be comprehensive and detailed, following all the advice and guidance for challenge activities. Wide range of research and challenge opportunities within the regional study of Africa Independent Learning Expectations 	 To be comprehensive and detailed, following all the advice and guidance for challenge activities. To devise whole fieldwork enquiry independently as opposed to selecting from a range of options
Progress in geography: Key Stage Three: Authors: David Gardiner, Catherine Owen Publisher: Hodder Education ISBN-13: 978-1510428003 Price £25 approx AQA GCSE Geography Student Book (key text) • Authors: Simon Ross, Nick Rowles • Publisher: Oxford University Press • ISBN-13: 9780198366614 • Price: £25	 To consolidate learning, by revisiting, at home, all work done in class To transform class work into students' own work by active revision, such as mind maps of topics, case study summaries, etc. Students to take responsibility for their learning; for example, liaising with staff on the content and homework from any missed lessons, well in advance of the next lesson. 	

Year: 9 Subject: History Curriculum Leader: Mr Shah

Learning across the Year 2021-22 Email:e.shah@holyfamily.waltham.sch.uk

Autumn Term	Spring Term	Summer Term
Autumn 1: Students will study the Cold War with a particular focus on:	Spring 1 Students will study the history of terrorism • Meanings and definitions	Summer 1-2 Continue and Complete the Western Front unit

 The conflicting ideas of communuism and capitalism The birth of superpowers as sworn enemies The Cold War's "hot" events: East Germany, Vietnam, Cuba and Angola The end of the Cold War Autumn 2: How far has racism changed in the UK? Exploring the language of race and racism The role of states in racism:	 Islamophobia since 9/11 Consequences of terrorism Spring 2 Students will begin their Edexcel GCSE History course. The British sector of the Western Front (1914-18) The life of Walter Tull 	
Homework	Homework	Homework
Research and presentation, essay questions, source questions.	Research and presentation, essay questions, source questions.	Research and presentation, essay questions, source questions.
Assessment Dates/Topics/Skills	Assessment Dates/Topics/Skills	Assessment Dates/Topics/Skills
Autumn 1: Write a narrative account analysing how tension increased between the USSR and USA during the Cold War Autumn 2: Will the UK ever be free from racist power? Debate	Spring 1: Explain one consequence of terrorist activities in the UK. Explain the importance of the media in spreading the fear of terrorist activities.	Various GCSE style questions

Autumn Term	Spring Term	Summer Term
Challenge Tasks	Challenge tasks	Challenge Tasks
Student leadership	Student leadershipExtended project	Student leadership
Recommended Resources	Independent Learning Expectations	
Websites: BBC websites www.schoolhistroy.com www.activehistory.co.uk www.historyonthenet.com www.historytoday.com	All homework completed on time and to a high standard Well-presented books Pride in work Working with peers to achieve the set goals	

Year: 9 Subject: Mathematics

Curriculum Leader: Mr McCollin KS3 Coordinator: Ms Atakan

Learning across the Year 2021-22 Email: a.atakan@holyfamily.waltham.sch.uk

Autumn Term	Spring Term	Summer Term
Higher Number properties and reasoning Place value and estimating HCF and LCM Calculating with powers Zero, negative and fractional indices Standard form Surds Expanding and factorising Equations and formulae Linear and non linear sequences Foundation Calculations Decimal numbers Place value Factors and multiples Squares, cubes, roots Index notation Prime factors Algebraic expressions Simplifying expressions Substitution Formulae Expanding and factorising	Higher Statistical diagrams Scatter graphs Averages and range Fractions and ratio Ratio and proportion Percentages Fractions, decimals and percentages Angle properties of triangles and quadrilaterals Interior and exterior angles of a polygon Pythagoras' theorem Trigonometry Foundation Frequency tables Two way tables Representing data Timeseries Stem and leaf diagrams Pie charts Scatter graphs Fractions Fractions Fractions, decimals and percentages Calculating with percentages Solving equations Solving inequalities Sequences and nth term	Higher Linear graphs Graphing rates of change Real life graphs Line segments Quadratic, cubic and reciprocal graphs Perimeter and area of compound shapes Units and accuracy Prisms Circles and sectors Cylinders and spheres Pyramids and cones 3D solids Transformations Bearings and scale drawings Constructions and loci Foundation Properties of shapes Angles in parallel lines Angles in triangles Exterior and interior angles Geometrical patterns Mean, median, mode and range Estimating the mean Sampling Changing units Area of compound shapes

		Volume of prisms
Homework	Homework	Homework
Tasks on Hegarty Maths	Tasks on Hegarty Maths	Tasks on Hegarty Maths
 Tasks from the Digital PLC 	 Tasks from the Digital PLC 	 Tasks from the Digital PLC
 Parallel Maths Project 	Parallel Maths Project	 Parallel Maths Project
Assessment Dates/Topics/Skills	Assessment Dates/Topics/Skills	Assessment Dates/Topics/Skills
End of unit assessments. End of term	End of unit assessments. End of term	End of year assessment.
assessment.	assessment.	

Year: 9 Subject: Mathematics

Autumn Term	Spring Term	Summer Term
Challenge Tasks	Challenge tasks	Challenge Tasks
Parallel Maths Project. Independent study using Hegarty Maths. Junior Maths Challenge.	Parallel Maths Project. Independent study using Hegarty Maths. Junior Maths Challenge.	Parallel Maths Project. Independent study using Hegarty Maths. Junior Maths Challenge.
Recommended Resources	Independent Learning	
	Expectations	
HegartyMaths.com	Complete all homework.	
Parallel.org.uk	Regularly use and update the Digital PLC	
	(accessible via Google Classroom).	

Digital PLC's (accessible via Google	Read over notes prior to the next lesson	
Classroom).	in order to facilitate continuous	
	progression.	
	Use and update PLC regularly.	

Year: 9 Subject: Music Curriculum Leader: Mrs Corlett

Learning across the Year 2021-22 Email: h.corlett@holyfamily.waltham.sch.uk

Half term 1	Half term 2	Half term 3
Grime Music	Musical Futures - Performing popular songs	Ode To Joy - Remixing
Students will learn about the history of grime. They will listen and learn about songs that have influenced grime. They will learn how to write a Grime song and will spend this half-term writing and composing a grime song from scratch. They will learn how to write and record bass lines, chords and to write some lyrics. Students will submit their work via Bandlab.	Students will learn and perform a range of popular songs on different instruments (Keyboard, Guitar, Ukulele and voice). Every week we will look at a different popular song and we will begin learning those songs, the difficulty of the songs get harder as the weeks go on. Alongside this students will learn about the bass clef and extend their theory knowledge.	Students will learn a classical song (Ode To Joy) on the keyboard. They will record the song into Bandlab. They will use the metronome to meticulously record the song. Once recorded we will explore remixing techniques. We will look at existing songs that have been remixed and the different ways that this is possible. Students will remix Ode To Joy using the techniques we have learnt about this term.
Homework	Homework	Homework
Week 1 - To answer the questions on google drive based on the documentary.	Week 1 - Research a performer or a producer of your choice and create a fact file	Week 1 - Practice Ode To Joy at home and record the melody part into Bandlab

 Week 3 - Composing lyrics for your verse & chorus Week 6 - Online theory test 	Week 3 - Complete an online assessment on Music Theory	Week 4 - Research the following effects that can be used in music: Reverb, Delay, Chorus, Distortion
Assessment Dates/Topics/Skills	Assessment Dates/Topics/Skills	Assessment Dates/Topics/Skills
Theory test Final week - Assessment on final Grime composition	Performances of the different pieces every lesson. Theory test	Assessment within this project will be in line with BTEC criteria and will be tracked consistently. Theory test
Autumn Term	Spring Term	Summer Term
Challenge Tasks	Challenge tasks	Challenge Tasks
 Compose lyrics using techniques learned in English - such as simile and metaphor. Research Grime and the attributes of it Think about and research extended chords to include in your composition such as suspended chords and additional note chords. 	 Practising your chords on instruments at lunchtimes Singing at the same time as playing the instruments Practise keyboard at lunchtimes or outside of school (if a recorder is available at home). 	Use youtube to find out more about remixing Use http://www.musictheoryvideos.com/ and http://www.musictheory.net/ to practice and learn more about music theory. Explore Notation on the BBC Music bitesize - http://www.bbc.co.uk/education/topics/zs48mp3
Recommended Resources	Independent Learning Expectations	
http://www.dsokids.com/ http://www.mymusictheory.com/ http://www.youtube.com http://www.musictheoryvideos.com/ http://www.musictheory.net/ http://www.african-drumming.com/african_drums.htm http://www.bbc.co.uk/learningzone/clips/samba-music/53 06.html http://www.last.fm/tag/samba http://www.bbc.co.uk/1xtra/events/rnbsensations/history/ pre90s/ http://www.bbc.co.uk/1xtra/events/rnbsensations/history/ post90s/	A large percentage of music work is group work apart from music theory work, keyboard skills and music analysis. It is therefore expected that students complete all individual tasks to the highest possible standard. The Music Department is often open for pupils to come in at lunchtime, so it is expected that pupils will put in the extra time if it is needed. It is also expected that if students are struggling to complete individual tasks, they ask for help rather than not completing them properly	

Year: 9 Subject: PE Curriculum Leader: Mrs Cole

Learning across the Year 2021-22 Email:e.cole@holyfamily.waltham.sch.uk

Autumn Term	Spring Term	Summer Term
Half Term 1/2 - Fitness for sport and wellbeing -Life long participation - Develop knowledge and application of advanced skills in a range of different activities Take positive action to be physically activity and impact on my wellbeing - Reinforce positive attitudes towards peers - Reinforce an effective team member - Develop confidence in communication and leadership skills - Be able to deal with conflict showing emotional maturity	Half Term 3/4 - TGfU / transferable concepts - Develop knowledge and application of specific game tactics and strategies in a range of different activities. - Develop coaching skills to be able to improve one and other performance. - Develop high quality communication and leadership skills taking responsibility for others learning and behaviour - Develop problem solving skills and think creatively about solutions	Half Term 5 - Sports Education - Part 1 - Athletic and Physical Fitness competencies Half Term 6 - Sports Education - Part 2 - Competitive Game Competencies - Begin to enjoy competition positively - Develop values of fair play, respect, humility in defeat, graciousness in success and sportspersonship - Develop knowledge of rules and regulations of a range of sports and apply them in competitive situations with increased confidence and authority - Develop high quality communication and leadership skills - Develop problem solving skills and think creatively about solutions - Celebrate mine and others' success.
Homework	Homework	Homework

 Questions relevant to lesson content Continue to improve your personal fitness levels 	 Questions relevant to lesson content Continue to improve your personal fitness levels 	 Questions relevant to lesson content Continue to improve your personal fitness levels
Assessment Dates/Topics/Skills	Assessment Dates/Topics/Skills	Assessment Dates/Topics/Skills
 Assessment at the end of each activity block. AfL and Formative Assessment (Questioning, Observation, Feedback) Regular descriptive feedback (teacher, self, peer) Clear vision of learning target. What does it look like? The qualities/criteria involved. Use of models and examples to highlight strong and weak work. 	 Assessment at the end of each activity block. AfL and Formative Assessment (Questioning, Observation, Feedback) Regular descriptive feedback (teacher, self, peer) Clear vision of learning target. What does it look like? The qualities/criteria involved. Use of models and examples to highlight strong and weak work. 	 Assessment at the end of each activity block. AfL and Formative Assessment (Questioning, Observation, Feedback) Regular descriptive feedback (teacher, self, peer) Clear vision of learning target. What does it look like? The qualities/criteria involved. Use of models and examples to highlight strong and weak work.

Autumn Term	Spring Term	Summer Term
Challenge Tasks	Challenge tasks	Challenge Tasks
 Join extra-curricular clubs More able students to lead parts of lesson 	 Join extra-curricular clubs More able students to lead parts of lesson 	Join extra-curricular clubsMore able students to lead parts of lesson
Independent Learning Expectations	Independent Learning Expectations	Independent Learning Expectations
 Wider reading about sport Attend extra-curricular clubs at school Join clubs outside of school Watch sport in your local community and on TV 	 Wider reading about sport Attend extra-curricular clubs at school Join clubs outside of school Watch sport in your local community and on TV 	 Wider reading about sport Attend extra-curricular clubs at school Join clubs outside of school Watch sport in your local community and on TV

Year: 9 Subject: RE Curriculum Leader: Peter Norman

Learning across the Year 2021-22 Email: p.norman@holyfamily.waltham.sch.uk

Autumn Term	Spring Term	Summer Term
A study of Mark's Gospel	Introduction to GCSE beginning	GCSE: sources of Wisdom and
(identity of Jesus & conflict)	with 'Forms of expression'	Authority
Homework	Homework	Homework
Based on the following topics	Based on the following topics	Based on the following topics
The Baptism of Jesus The Nature of Miracles Peter's confession The transfiguration The Passion of Jesus Conflict over the Sabbath, healing and authority.	 Church architecture Sacred objects Artwork in Catholicism Sculpture and statues Symbolism Drama music 	 The sacraments Liturgical worship Prayer Popular piety Pilgrimage The Bible The second Vatican council The church
Assessment Dates/Topics/Skills	Assessment Dates/Topics/Skills	Assessment Dates/Topics/Skills
GCSE style questions will be used to assess progress and learning on the topics outlined above.	GCSE style questions will be used to assess progress and learning on the topics outlined above	GCSE style questions will be used to assess progress and learning on the topics outlined above
Fortnight beginning 29th October	Fortnight beginning 11th February	Fortnight beginning 13th May 2022

Autumn Term	Spring Term	Summer Term
Challenge Tasks	Challenge tasks	Challenge Tasks
People of faith today, throughout the world, still experience persecution prejudice and discrimination for their beliefs. Research a community overseas that might not be free to practice their faith.	'A picture paints a thousand words' Create a powerpoint of several works of religious art and explain how these images reflects an aspect of faith and belief	Research this question: Explain how the changes brought about by the second vatican council effect the lives of Catholics today.

Recommended Resources	Independent Learning Expectations	
All pupils will have access to the GCSE textbook via Kerboodle. There are also links to other websites that offer a wider view of the topics studied. The website offers a range of activities like quizzes and audio material that can enhance a pupils understanding of a topic.	Each pupil is encouraged to deepen their knowledge and understanding of the topics as the course progresses. All pupils should therefore keep up to date with Church teaching and practice. Following the news and discussing the issues that relate to faith and practice with your family and friends is also recommended. Also use the RE dept website.	

Year: 9 Subject: D &T: Product Design Curriculum Leader: Mr S Nandlal

Learning across the Year 2021-22 Email: s.nandlal@holyfamily.waltham.sch.uk

Course Details		
Autumn Term	Spring Term	Summer Term
Jewellery box project: FINGER JOINT Writing the Situation, Design brief and users. Research on existing box products. Questionnaire and survey. Table of results. Graphs, pie charts, bar charts, histograms to analyse results. Design specification. Initial ideas, development of ideas.	Draw basic geometrical shapes in isometric projection with isometric grid sheet. Draw complex shapes in isometric projection with isometric grid sheet. Draw complex shapes in isometric projection with isometric grid sheet. Draw complex shapes in isometric projection on computer using techsoft 2D (CAD). 1 and 2-point perspective drawing to draw basic and complex geometrical shapes.	Metal Casting project Writing the design brief. Research on existing box products. Analysing the existing products. Design specification. Initial ideas, development of ideas. Final idea – 3D using any software. Use of Techsoft 2D to design medal (CAD).

 Final idea – 3D using any software. Types of wood joints(finger Joint) Making of box with wood. Use of laser cutter (CAM) to engrave product. Diary of manufacture. Photographic evidence of making. Evaluation and peer assessment. 	 Freehand sketches. Use rendering/shading techniques to plain objects to make them look like 3D. Further google sketchup work to design products such as lights/lamps, bird houses, dog houses, buildings, jewellery boxes, bedside cabinets, trophies, tables, toys, etc 	 Cutting the design on laser cutter (CAM) to make the mould. Pewter casting. Filing, wet and dry paper, polishing medal. Evaluation and peer assessment.
Homework	Homework	Homework
 Research on existing box/Photo holder products. Questionnaire Graph plotting. Design creative and original ideas with clear annotation. Complete diary of manufacture. Evaluation and peer assessment of the product made. Ph: Creation of a client questionnaire/ research client profile Ph: Detailed design brief and specification Ph: Initial designs with annotations Ph: Detailed development of designs 	 Draw freehand basic shapes. Render/Shade plain objects. Draw a simple kitchen table in single point perspective. Home appliances worksheet for rendering. Draw and render freehand products like lights/lamps, bird houses, dog houses, buildings, jewellery boxes, bedside cabinets, trophies, tables, toys, etc. Cc: sketchup design Cc: photographic record of making Cc: Detailed evaluation of the product 	 Research on existing products. Design creative and original ideas with clear annotation. Technology word search. Complete 'what is pewter' worksheet. Pewter casting worksheet 1. Pewter casting worksheet 2. Safety brazing worksheet LL: Analysis of disassembly. LL: Card modelling LL design development Evaluations
Assessment Dates/Topics/Skills	Assessment Dates/Topics/Skills	Assessment Dates/Topics/Skills
 Evaluation of questionnaire to find what people want. Peer assessment of design ideas with annotations. Making. Evaluation of project. Quality control checks when making product – self assessment. Self-assessment at the end of project. Ph: Client profile /design brief and specification 	 Peer assessment of freehand shapes. Assessment of rendering. Assessment of single point perspective. Assessment of isometric projection. Assessment of 2-point perspective. Peer assessment of google-sketchup products. Cc: Photographic record of making Cc: Evaluations 	 Peer assessment of design ideas with annotations. Peer assessment of final design. Evaluation of project. Quality control checks when making product – self assessment. 2D design assessment on techsoft. Self-assessment at the end of project. Production Plan LL: Analysis of disassembly. LL: Card modelling
Autumn Term	Spring Term	Summer Term
Challenge Tasks	Challenge tasks	Challenge Tasks
 Creative and original design ideas with comprehensive annotations. Complex products other than basic box products. 	 Designing a bedroom or a kitchen using single point perspective. Designing a house (building) using google sketchup. 	 Variety of research with detailed annotation with own opinion on existing products. Originality of final design. Quality finish of the finished product.

 Confident use of workshop tools and equipment. Ph: detailed design development 	 Draw and render any home appliance. CC: making multiple parts on the 3D printer and attach them together using adhesive and other fixings 	Use of nail varnish to add colour
Recommended Resources	Independent Learning	
	Expectations	
Websites for research: www.technologystudent.com www.bbcbitsize.com Software: Google sketchup free download (version 8) Techsoft 2D Focus Education software Access to internet Video: How to get started with sketchup. Worksheets: Isometric grid sheet. Plain papers. Single and double point perspective worksheets. Complete 'what is pewter' worksheet. Pewter casting worksheet 1. Pewter casting worksheet 2. Safety brazing worksheet. Tools and Equipment: Pen, pencil, long ruler, coloured pencils. Hand tools such as steel rule, marking gauge, try square, tenon saw, chisel, mallet, file, etc. Electrical power tools such as sanding disc, polisher, morticer, Hegner/Scroll saw, laser cutter, brazing hearth, etc.	 Able to assess own work (complete peer assessment sheet). To come out with original and creative design ideas based on own knowledge of existing products. Very skilful, confident and comfortable with the use of hand tools and electrical power tools. Able to analyse and give own opinion on existing products. Cc: show design development 	

Year: 9 Subject: Science Curriculum Leader (KS4): Ms Johnson

Learning across the Year 2021-22 Email:I.Johnson@holyfamily.waltham.sch.uk

Autumn Term	Spring Term	Summer Term
B1 - Cell biology C1 - Atomic structure & The periodic table P1 - Energy	B2 - Organisation C2 - Structure & Bonding P2 - Electricity	P2 Electricity Revision for End of year exams *End of year exams (full synoptic tests for Biology, Chemistry and Physics)
Homework	Homework	Homework
 Past paper AQA exam questions on topic area studied Complete online SENECA tasks and revision booklets Completing E-learning simulation tasks for required practicals Online Lbq tasks 	 Past paper AQA exam questions on topic area studied Complete online SENECA tasks and revision booklets Completing E-learning simulation tasks for required practicals Online Lbq tasks 	 Past paper AQA exam questions on topic area studied Complete online SENECA tasks and revision booklets Completing E-learning simulation tasks for required practicals Online Lbq tasks
Assessment Dates/Topics/Skills	Assessment Dates/Topics/Skills	Assessment Dates/Topics/Skills
*There is an end of topic test for each topic or combined topics. These tests are teacher assessed' The dates will follow the curriculum maps for the academic year 2021/2022. W/B: 4/10/21 - B1 Cell biology W/B: 8/11/21 - C1 Atomic structure & The periodic table W/B: 7/12/21 - P1 Energy *Skills: A01 - recall; A02 - application of knowledge and A03 evaluation	*There is an end of topic test for each topic or combined topics. These tests are teacher assessed' The dates will follow the curriculum maps for the academic year 2021/2022. W/B: 31/1/22 - B2 Organisation W/B: 14/3/22 - C2 Structure & Bonding *Skills: AO1 - recall; A02 - application of knowledge and A03 evaluation	*There is an end of topic test for each topic or combined topics. These tests are teacher assessed' The dates will follow the curriculum maps for the academic year 2021/2022 W/B: 9/5/22 - P2 Electricity W/B: 21/6/22 - P2 End of Year exams (full synoptic tests for Biology, Chemistry and Physics) *Skills: A01 - recall; A02 - application of knowledge and A03 evaluation

Challenge Tasks	Challenge tasks	Challenge Tasks
Complete stretch and challenge activities	Complete stretch and challenge activities set	Complete stretch and challenge activities set
set on Google Classroom.	on Google Classroom.	on Google Classroom.
Refer to the bespoke Stretch and	Refer to the bespoke Stretch and Challenge	Refer to the bespoke Stretch and Challenge
Challenge task set by class teacher from	task set by class teacher from End of Topic	task set by class teacher from End of Topic
End of Topic Tests to make progress in	Tests to make progress in relevant numeracy	Tests to make progress in relevant numeracy
relevant numeracy skills and/or content	skills and/or content knowledge.	skills and/or content knowledge.
knowledge.	 Participate in STEM club challenges and 	Participate in STEM club challenges and
 Participate in STEM club challenges and projects. 	projects.	projects.
Recommended Resources	Independent Learning	
	Expectations	
GCSE Combined Science Specification	Revise for all exams	
https://filestore.aqa.org.uk/resources/science/specif	using End of topic test	
ications/AQA-8464-SP-2016.PDF	feedback.	
Useful websites:	Complete homework	
www.physicsandmathstutor.com	tasks as well as	
https://www.youtube.com/c/Freesciencelessons	revision booklets	
https://www.youtube.com/c/Cognitoedu	Complete online	
*Resources and lesson powerpoints are	SENECA and	
centralised and posted by teachers on all Google Classrooms.	Learning by	
Ciassiculiis.	Questions' tasks set	
	on Google Classroom.	
	 Fulfil revision cards, using video shared links to support this 	

Year: 9 Subject: Spanish Curriculum Leader: Ms Prada

Learning across the Year 2021-22

Autumn Term	Spring Term	Summer Term
Module 1- Somos así	Module 2- ¡Oriéntate!	Module 4- Jóvenes en acción
Yr7&8 revision	Hotel catástrofe	Mis derechos
La case de papel	¿En qué te gustaría trabajar?	El comercio justo
Cosas que me molan	¿Cómo va a ser tu futuro?	Reciclamos
Mi semana	¿Cómo es un día típico?	
Cartelera de cine	Mi diccionario y yo	Proyecto película
Un cumpleaños muy especial	El día del trabajo	
Los famosos	Un monólogo divertido	
¿Adónde fuiste?		
Así soy yo		
	Module 3- En forma	
Module 2- ¡Oriéntate!	¿Llevas una dieta sana?	
Hotel catástrofe	Preparados, listos, ya	
¿En qué te gustaría trabajar?	¿Cuál es tu rutina diaria?	

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¿Qué tal ayer en el trabajo? ¿Cómo es un día típico? Navidades	¡Muévete! Me duele todo Mi rutina diaria	
Homework	Homework	Homework
Extension Reading activities Thinking skills worksheet Cultural topics Writing homework Translations into English and Spanish Re-drafting writing assessment Speaking preparation for Photo card Grammar homework: preterite, comparatives and forming opinions Seneca learning Viva Pearson learning	Extension Reading activities Thinking skills worksheet Cultural topics Writing homework Translations into English and Spanish Re-drafting writing assessment Speaking preparation for Conversation and Roleplay Grammar Homework: future tense formation and practice, using Usted and Ustedes and revision of the three tenses studied Grammar Homework: reflexive verbs Seneca learning Viva Pearson learning	Extension Reading activities Thinking skills worksheet Cultural topics Writing homework Translations into English and Spanish Re-drafting writing assessment Speaking preparation for Presentation Grammar homework: conditional tense formation and practice, using poder and querer + an infinitive verb, the formation and practice of reflexive verbs Seneca learning Viva Pearson learning
Assessment	Assessment	Assessment
Dates/Topics/Skills	Dates/Topics/Skills	Dates/Topics/Skills
All redrafted written homework will be assessed according to the marking criteria for writing based on the linear GCSE.	All redrafted written homework will be assessed according to the marking criteria for writing based on the linear GCSE.	All redrafted written homework will be assessed according to the marking criteria for writing based on the linear GCSE.
Module 1 assessments Listening Reading Writing Speaking- Photocard	Module 2 assessments Listening / Reading / Writing Speaking- Conversation	Module 4 assessments Listening / Reading / Writing Speaking- Presentation

Module 3 assessments	
Listening / Reading / Writing	
Speaking- Roleplay	

Autumn Term	Spring Term	Summer Term
Challenge Tasks	Challenge tasks	Challenge Tasks
All lessons are planned according to what students must, should and could complete during the lesson. All lessons include a challenge task.	All lessons are planned according to what students must, should and could complete during the lesson. All lessons include a challenge task.	All lessons are planned according to what students must, should and could complete during the lesson. All lessons include a challenge task.
All students have PLCs that need to be constantly updated and referred to.	All students have PLCs that need to be constantly updated and referred to.	All students have PLCs that need to be constantly updated and referred to.
Students must continue to re-apply vocabulary in a new context.	Students must continue to re-apply vocabulary in a new context.	Students must continue to re-apply vocabulary in a new context.
Students should justify what they say using a variety of ideas and opinions to back up what they have said or written.	Students should justify what they say using a variety of ideas and opinions to back up what they have said or written.	Students should justify what they say using a variety of ideas and opinions to back up what they have said or written.
Students must use flashy (unusual) vocabulary.	Students must use flashy (unusual) vocabulary.	Students must use flashy (unusual) vocabulary.
All students have been provided with a Student Guide, which contains a progress review section, the marking criteria and strategies to improve.	All students have been provided with a Student Guide, which contains a progress review section, the marking criteria and strategies to improve.	All students have been provided with a Student Guide, which contains a progress review section, the marking criteria and strategies to improve.

Recommended Resources
 Viva 1 Student book: 97814479 35254 Student Guide to Success in Year 8 (supplied by class teacher) EDEXCEL GCSE Spanish Foundation. Pearson. ISBN: 9781846903915 EDEXCEL GCSE Spanish Higher. Pearson. ISBN: 9781846903922 Collins Easy Learning Spanish dictionary or Oxford Learner's dictionary: recommended for home use only as we have large stocks in school www.bbc.co.uk/education www.languagesonline.org.uk Youtube https://www.duolingo.com/ www.wordreference.com

Year: 9 Subject: Computing Learning across the Year 2021-22

Curriculum Leader: Mr Hussain Email: mr.hussain@holyfamilycatholicschool.co.uk

Autumn Term	Spring Term	Summer Term
Developing For The Web Overview: Learners will explore the technologies that make up the internet and World Wide Web. Starting with an exploration of the building blocks of the World Wide Web, HTML, CSS and Javascript, learners will investigate how websites are catalogued and organised for effective retrieval using search engines. By the end of the unit, learners will have a functioning website.	Text-Based Programming: Python Overview: This unit introduces learners to how data can be represented and processed in sequences, such as lists and strings. The lessons cover a spectrum of operations on sequences of data, that range from accessing an individual element to manipulating the entire sequence. Great care has been taken so that the selection of problems used in the programming tasks are realistic and engaging: learners will process solar system planets, book texts, capital cities, leaked passwords, word dictionaries, ECG data, and more. Developing For The Web Overview: Learners will explore the technologies that make up the internet and World Wide Web. Starting with an exploration of the building blocks of the World Wide Web, HTML, CSS and Javascript, learners will investigate how websites are catalogued and organised for effective retrieval using search engines. By the end of the unit, learners will have a functioning website.	Text-Based Programming: Python Overview: This unit introduces learners to how data can be represented and processed in sequences, such as lists and strings. The lessons cover a spectrum of operations on sequences of data, that range from accessing an individual element to manipulating the entire sequence. Great care has been taken so that the selection of problems used in the programming tasks are realistic and engaging: learners will process solar system planets, book texts, capital cities, leaked passwords, word dictionaries, ECG data, and more.
Homework	Homework	Homework

Bi-weekly Seneca Assignments	Bi-weekly Seneca Assignments	Bi-weekly Seneca Assignments
Assessment Dates/Topics/Skills	Assessment Dates/Topics/Skills	Assessment Dates/Topics/Skills
W/C 18th October - Controlled Practical Assessment	W/C 7th February 2022 - Google forms Quiz W/C 28th March - Controlled Practical Assessment	W/C May 23rd - Google Forms Quiz

Autumn Term	Spring Term	Summer Term
Challenge Tasks	Challenge tasks	Challenge Tasks
Undertake creative projects that involve selecting, using, and combining multiple applications, preferably across a range of devices, to achieve challenging goals, including collecting and analysing data and meeting the needs of known users	Use 2 or more programming languages, at least one of which is textual, to solve a variety of computational problems; make appropriate use of data structures [for example, lists, tables or arrays]; design and develop modular programs that use procedures or functions	Undertake creative projects that involve selecting, using, and combining multiple applications, preferably across a range of devices, to achieve challenging goals, including collecting and analysing data and meeting the needs of known users
Recommended Resources	Independent Learning Expectations	
ReplitCode Combat		