

Year 10 Spring 1 Lockdown Curriculum

Art

Topics

- Developing ideas for Component 1 Personal Investigation
- Recording ideas and observations through drawing and photography
- Analysing relevant artists work for practical responses
- Experimenting with various drawing & painting technique to lead into a sustained outcome

Recommended Resources

- Online artist workshops delivered by artists Jeanette Barnes and Paul Brandford were highly popular with many GCSE & A Level Art students during the Christmas holidays. Portrait and 'New York' Urban workshops are taking place at weekends during January and February and it is likely that additional workshops will run during February half term: <https://weexploredrawing.co.uk/workshops.html>. Work produced will support students' portfolios and help with the development of ideas. NB: when registering, either the student or parent personal e mail address is needed in order to receive the link to join the workshop (not the students school e mail).
- Whilst the National Portrait Gallery is currently closed, students can view the wide collection of portraits through virtual tours online. There is also the Family Activities: Playful Portraits page for all to enjoy as well as the opportunity to tour the virtual Taylor Wessing Photographic Portrait Prize.
- To support students in considering their career options and in understanding the benefits of studying Art & Design based subjects at GCSE and beyond, we highly recommend this Netflix series for the entire family to watch: Abstract: The Art of Design.
- The department regularly share ideas and resources with individuals through OneDrive as well as through Pinterest https://www.pinterest.co.uk/Miss_McKeown/ and through our Art Wallington Girls YouTube channel <https://www.youtube.com/channel/UCngXknR-KZYjMo-aJVdKW6g>
- Check the Art Dept Instagram for various art challenges, celebrations of student work and more! https://www.instagram.com/art_at_wallington_girls

Biology

In Biology this term we will be finishing Topic 4 then starting on Topic 5.

Topic 4 (Natural selection and genetic modification)

- Genetic modification
- Risks and benefits of genetic modification
- Fertilisers and Biological control
- End of Topic Review and Active Learn tasks

Topic 5 (Health, disease and the development of medicines)

- Health and disease
- Non-communicable diseases
- Cardiovascular disease
- Pathogens
- Spreading pathogens 1

- Spreading pathogens 2
- Virus lifecycles
- Plant defences
- Plant diseases
- Physical and chemical defences
- The immune system
- Monoclonal antibodies
- Antibiotics

Recommended Resources

- [Pearson Active Learn](#) – this is where the GCSE Edexcel Biology text book can be found in addition to several activities that teachers may set for their classes.
- FROG – in the KS4 Biology tab there are lesson resources, revision materials and past papers. There is also a recommended further reading list available.
- Additional revision websites:
 - [BBC Bitesize Edexcel](#) – a useful revision website for Edexcel GCSE Biology
 - [Physics and Math Tutor for Biology](#) – a useful revision website for Edexcel GCSE Biology
 - [Seneca Learning](#) – resources for Edexcel GCSE Biology
 - [S-cool](#) – a useful general revision website
 - [Kayscience](#) – a useful general revision website

Business Studies

Topics

- Marketing mix
 - Product
 - Price
 - Place
 - Promotion
- The role of the Human Resources Function
 - Recruitment and selection
 - Motivation & retention
 - Training & development

Recommended Resources

- Websites
 - Tutor2u
 - BBC Bitesize
 - BBC News website – business section

Chemistry

Topics

C5- Chemical Changes

Recommended Resources

- **FROG:** Chemistry GCSE > Teaching Resources > Home Learning - there is a wealth of resources here and is the first place I would direct students looking for additional resources;
- **Kerboodle** – all students have log in details. Gives students access to the virtual textbook, interactive tasks and assessment material;

- **Oak National Academy Online Classroom:** [Oak National Academy Online Classroom \(thenational.academy\)](https://www.thenational.academy) an excellent website that has a teacher explanation clip, worksheet and assessment quiz for every lesson.
- **Royal Society of Chemistry:** [Education | Royal Society of Chemistry \(rsc.org\)](https://www.rsc.org/education) – a lot of the resources here are aimed at teachers, but there are many very useful resources for students, too. This website is particularly useful for watching demonstration clips of core practicals.
- **YouTube** – below are a list of some of my favourite channels:
 - **Fuse School**
 - **Freesciencelessons**
 - **Cognito**
 - **MrPidge Science**

Computing

Topics:

Fundamentals of computer networks

- Wired and wireless networks
- Network topologies and transmission
- Network security
- Protocols and layers

Classification of languages

- Low-level and High-level languages
- Translation programs

Recommended Resources

<https://www.codecademy.com/learn/learn-python-3> this will help develop student's coding knowledge further

The Code book – The secret history of Codes and Code Breaking by Simon Singh – a great book that introduces and expands on the ideas of code breaking.

BBC Bitesize (GCSE CS) – great for additional revision for GCSE topics.

CraignDave – a video channel which explores GCSE topics using 10 minute videos

<https://app.senecalearning.com/classroom/course/90cb1d71-3c44-4a2d-a07e-d76a5f54cd05> Revision for AQA GCSE topics

Design and Technology

Year 10 PD topics: Linked into GCSE syllabus theory

- Clock prototyping using card
- People, culture and society, theory
- Toilet symbol design
- Mini NEA project (HSE)
- Production techniques and systems

Food

Topics:

- Macro nutrient – function of fats in the diet Chemical composition of fats. Saturated and unsaturated fats The correct amount of fat to be consumed in the diet Effects of excess and deficiency of fat Functionality of fats in cooking. Practical cook along – low fat cookies

- Macro nutrient – function of carbohydrate in the diet Carbohydrates needed for energy Simple and complex carbohydrates Understanding different Glycaemic index rates in foods The correct amount of carbohydrates to be consumed in the diet Effects of excess and deficiency of carbohydrates. Practical cook along - Potato croquettes
- Micronutrients – Vitamins Fat soluble Understanding the chemical name, function, sources and problems if too little or too much is consumed. Practical cook along - Lemon or orange sponge sandwich cake
- Micronutrients - Vitamins Water soluble Understanding the chemical name, function, sources and problems if too little or too much is consumed. Preparation of fruit and vegetables to preserve water soluble vitamins. Practical cook along – vegetable pizza

Recommended Resources

CGP GCSE Food preparation revision guide and practice questions. All students have been given a copy of this book to keep at home.

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

<https://www.foodafactoflife.org.uk/14-16-years/>

Online text book on FROG

Drama

Topics

- Consolidating knowledge and understanding of set text, “The Crucible” by Arthur Miller
- Developing skills in preparation for the devising project

Recommended Resources

- The Salem Witch Hunt: An interview with Arthur Miller podcast
 - <https://www.bbc.co.uk/programmes/p033xbhw>
(You may need to register to access this- use your school email account for example)
- CGP textbook: The Crucible
(students already have this)
- BBC Bitesize: GCSE AQA Drama- Devising
<https://www.bbc.co.uk/bitesize/topics/z4vm2sg>

English Literature

Topics

- AQA Anthology – Power and Conflict Poetry (15 poems)
- Understanding of the key ideas in each poem:
 - Language, Form and Structure
 - Relevant contextual information
 - The big idea or main message of each poem
 - How poems are linked and points of comparison between poems
- Revision of poetic terminology
- Unseen poetry – analysis of unseen texts

Recommended Resources

- An electronic copy of the 15 poems can be found on FROG

- YouTube – lots of excellent analysis videos are available but please check with your teacher before accessing these as poems are open to interpretation and some ideas/videos are better than others
- Mr Bruff – some excellent analysis videos and ideas – you may watch these to supplement your understanding of the poems
- Genius website useful for annotations for poems that are more difficult – again, treat these with some caution as they are one person’s interpretation

French

Year 10 is studying the topic of Free Time, including:

- Descriptions of sports and other leisure activities
- Talking about plans regarding free time
- Eating out and food related vocabulary
- Revision of present, past and future tenses as well introduction to the simple future tense
- Introduction of infinitive structures used in GCSE French
- Pronouns including demonstrative pronouns
- Complex negatives used in GCSE French

Students will complete answers for the written and speaking exam in Year 11 and will have a short speaking assessment.

Recommended Resources

Vocabulary Express (use your username and password to access this go to learn vocabulary and complete all of the exercises for both Foundation and Higher GCSE)

<https://vocabexpress.com/login>

AQA French

<https://www.aqa.org.uk/subjects/languages/gcse/french-8658>

Kerboodle (focus on interactive activities for each of the units covered and mini readers)

<https://kerboodle.com>

BBC Bitesize (select French /KS3; lots of games and fun activities to learn)

<https://www.bbc.co.uk/bitesize>

Languages online (go to français tab and complete any of the quick links topics including grammar, vocabulary, quizzes, etc)

www.languagesonline.org.uk

duolingo (also an app)

<https://www.duolingo.com/>

Conjuguemos (go to library/French and select any of the verbs, grammar or listening exercises. Focus on regular present, past and future tenses)

<https://conjuguemos.com>

Geography

This half term students have finished their Changing Cities topic and are now moving onto ‘Changing landscapes of the UK’ and ‘River Landscapes’.

[Changing Landscapes](#)

- What is the UK's geology like?
- What is the relationship between Geology and relief?
- What are the UK's upland and lowland landscapes like?
- How do humans interact with the UK's landscapes?

River Landscapes

- What are the key processes shaping rivers?
- What landforms can be found in river landscapes?
- How do weather and climate affect rivers?
- What causes rivers to flood?
- How can we manage flood risk?
- How can we use OS maps to investigate river landscapes?

Recommended resources

- Interactive resource to explore the geology of the UK <https://www2.bgs.ac.uk/discoveringgeology/geology-of-britain/make-a-map/map.html>
- UK's distinctive landscapes- <https://www.nationalparks.uk/>
- Any news about flood risk, often found on BBC news- <https://www.bbc.co.uk/news>
- Great lessons on the oak national academy on many parts of the river topic- <https://teachers.thenational.academy/units/rivers-ba2f>
- Seneca learning – Geography GCSE Edexcel A: [Seneca - Learn 2x Faster \(senecalearning.com\)](https://www.senecalearning.com/)

German

What?	<p>Say how they celebrate a variety of customs and festivals and give opinions</p> <p>Adjectival nouns</p> <p>Word order including Time-Manner-Place</p> <p>Infinitives as nouns</p> <p>Understand about and give opinions on Karneval and re-cap Christmas</p> <p>Perfect tense revision</p> <p>Countries and places</p> <p>Weak masculine nouns</p> <p>Opinions in the past</p> <p>Describe their house</p> <p>Dual case prepositions (hav a nü uzi)</p> <p>Describe an ideal house and say where they would like to live in future</p> <p>Dative prepositions (mavs n bagz)</p>
Recommend	<p>Slow German accessible podcasts on many topics with transcript</p> <p>Easy German channel on YouTube; short entertaining videos about aspects of life in Germany</p> <p>Logo News programme for young people: turn on subtitles and see if you can understand the gist</p>

History

Topics

- Migration, Empire and the People
 - Vikings and Anglo Saxons, 790-1066
 - England and France, 1066-1560

Recommended Resources

- A helpful range of resources can be found on Frog
- BBC Bitesize from Migration AQA <https://www.bbc.co.uk/bitesize/topics/zx3fnbk>
- The British Library website has lots of different information on people and events in medieval England to explore. E.g. on Emma of Normandy. <https://www.bl.uk/people/queen-emma#>, King Canute <https://www.bl.uk/people/cnut> , Alfred the Great <https://www.bl.uk/people/alfred-the-great> , William the Conqueror <https://www.bl.uk/people/william-the-conqueror>

Maths

Topics:

- Trial and Improvement
- Iteration
- Volumes of:
 - Prisms
 - Spheres
 - Cones
 - Pyramids
- Surface Area
 - Prisms
 - Spheres
 - Cones
 - Pyramids
- Simultaneous equations
 - Linear
 - Linear and quadratic

Recommend Resources

- We would strongly advise the use of Hegarty Maths - <https://hegartymaths.com>
- All students have a login, and they are able to watch videos on topics, complete quizzes and seek help or get feedback from their teacher
- Other sites that are useful
- Corbett Maths - <https://corbettmaths.com/contents/> - website with a range of videos, worksheet and exam questions for all GCSE topics
- My Maths - <https://app.mymaths.co.uk/myportal/library/9/85> - website with a range of tutorials, worksheet and exam questions for all GCSE topics. All students have a login.
- Dr Frost - <https://www.dr frostmaths.com/resourceexplorer.php> - website with a range of powerpoints, worksheet and exam questions for GCSE topics

Media Studies

Topics

- Music Magazines- Mojo
- TV- Avengers and Cuffs

Recommended Resources

- YouTube to access clips of Avengers and Cuffs
- Wikipedia to find information on the texts being covered- please use this with caution!
- The official Mojo magazine website to access previous front covers <https://www.mojo4music.com/>

Music

Topics:

- Set works, performance, composition techniques
- Beethoven 'Pathétique Sonata'; features, glossary terms, sonata form, annotated score, tests, listening and analysis
- Purcell 'Music for a While'; features, glossary terms, ternary form, annotated score, tests, listening and analysis
- 'Killer Queen' Queen; features, glossary terms, annotated score, tests, listening and analysis
- Performance- choosing an ensemble piece, rehearsing with partner/ group, uploading a recording
- Performance- choosing a solo piece, rehearsing, uploading a recording
- Composition techniques; using diminished 7th chords, chords and cadences, modulation
- Composing a B section

Recommended Resources

- [Piano Sonata No.8 - Beethoven: Piano Sonata No.8, first movement - Edexcel - GCSE Music Revision - Edexcel - BBC Bitesize](#)
 - [Beethoven 'Pathétique' Piano Sonata in C minor, Movt. I: GCSE Music Annotated Score - YouTube](#)
 - [\(1\) Daniel Barenboim plays Beethoven Sonata No. 8 Op. 13 \(Pathétique\) - YouTube](#)
- [Music for a While - Purcell: Music for a While - Edexcel - GCSE Music Revision - Edexcel - BBC Bitesize](#)
- <https://youtu.be/ZYBliPhLAE0>
- [\(1\) Music for a While \(Purcell\) - Analysis 1 - Edexcel GCSE Music - YouTube](#)
- [Killer Queen - Queen: Killer Queen - Edexcel - GCSE Music Revision - Edexcel - BBC Bitesize](#)

PE and Dance (Core)

Topics

- **Theory:** Shadows Professional Dance work – Finishing off analysis of production features, exam style questions
- **Theory:** Artificial Things Professional Dance work – Watch, first level analysis of production features, exam style questions
- **Practical:** Exploration of new dance material and different dance genres through online dance classes and workshops
- **Practical:** Set Phrase 'Scoop' – remote learning of the GCSE AQA set phrase in which students must accurately replicate the given choreography focusing on physical, technical and expressive skills

Recommended Resources

- ['Shadows'](#) – Professional Dance work
- ['Artificial Things'](#) – Professional Dance work
- [Scoop](#) – AQA Set phrase

PE & Dance (GCSE)

Topics

- **Theory: (Paper 1)** The Human body and movement – musco-skeletal system
- **Theory: (Paper 2)** Socio-cultural influences in Sport - Arousal, Aggression, Personality Types and Motivation
- **Practical:** Students completing this aspect in their core PE lessons

Recommended Resources

- [Everlearner](#) PE platform (students have their own login's)
- [GCSE PE Bitesize](#)
- [BBC Sport](#) Sporting current affairs and contemporary issues

Physics

Topics

- Astronomy (topic 7), including:
 - The Solar system
 - Redshift
 - The big bang theory
 - Stellar evolution
 - Observing the Universe
- Energy (topics 3/8), including:
 - Energy stores & transferS
 - KE & GPE
 - Work, power & efficiency

Recommended Resources

- A huge array of helpful resources & links can be found on the GCSE Physics FROG page:
 - The 'home' tab has links to BBC Bitesize, the IOP, Physics & Maths tutor and many other good websites, plus access to topic checklists and other revision resources.
 - The 'learn' tab includes video links for each specification point of each topic, plus our usual in school lesson resources,
 - The 'school closure' tab is where all remote lessons can be found, including links to pre-recorded videos of these if a student is absent.
- Students also have access to the textbook online plus interactive activities through ActiveLearn.
- Seneca learning is an excellent resource to revise the basics for each topic. Search for 'Edexcel Physics GCSE Higher' to find content specific to our specification.
- It is also worth keeping an eye on BBC2 between 1 & 3 pm each day, which is showing many excellent science documentaries and programmes. These are also available at any time on BBC iPlayer.

Psychology

Topics

- Topic 3 (Development) with Mr Grandidge
Key features:
 - **Key Theories:** Piaget's Stages of Intellectual Development, Dweck's Motivation Theory of Learning and Willingham's Learning Theory
 - **Key studies:** McGarrigle and Donaldson's naughty teddy study and Hughes' policeman doll study
 - **Other topics:** Piaget's application to education; praise and self-efficacy; learning styles
- Topic 4 (Research Methods) and Topic 2 (Perception) with Ms Clayton/Dr Dunne
Key features:
 - **Research Methods:** Observations; Interviews & Questionnaires; Case Studies – how to conduct these research methods, different types and how to evaluate these methods.
 - **Research Methods:** Type of data – different types and how to evaluate types of data

- **Research Methods:** Descriptive statistics – understand and calculate mean, median, mode, range, ratios, fractions, percentages and estimation of results. Construct and interpret frequency tables and diagrams, bar charts, histograms and scatter diagrams. The characteristic of a normal distribution.
- **Perception:** What is ‘perception’, what is ‘sensation’, how are ‘perception’ and ‘sensation’ different and an introduction to visual illusions.

Recommended Resources

- [Tutor2u](#) is generally more for A-Level than GCSE but some overlap.
- [Simply Psychology](#) is generally more for A-Level than GCSE but some overlap.
- [Psychology Wizard](#) is generally more for A-Level than GCSE but some overlap.
- [Digital Illuminate E-Book](#) online access to the text-book used in class.
- [CrashCourse Youtube](#) has some relevant videos.

Spanish

Year 10 is studying the topic of Free Time, including:

- Descriptions of sports and other leisure activities
- Talking about plans regarding free time
- Eating out and food related vocabulary
- Revision of regular present and key irregular verbs in the present tense including radical changing verbs.
- Verbs followed by an infinitive
- Revision of the immediate future
- Hacer, salir, tener and haber in the future

Students will complete a writing and translation exam assessing the contents studied this term.

Recommended Resources

Vocabulary Express (use your username and password to access this go to learn vocabulary and complete all of the exercises for both Foundation and Higher GCSE)

<https://vocabexpress.com/login>

Seneca (go to student access/GCSE/Spanish GCSE)

<https://senecalearning.com/en-GB/>

Conjuguemos (go to library/Spanish and select any of the verbs, grammar or listening exercises. Focus on regular verbs initially, then move onto more challenging exercises)

<https://conjuguemos.com>

BBC Bitesize (select Spanish GCSE, lots of games and fun activities to learn)

<https://www.bbc.co.uk/bitesize>

Theology and Philosophy

Topics

This term Year 10 are continuing their study of Christianity. They have recently completed the first two topics within Christianity in which they looked at key Christian beliefs and teachings, as well as Christian beliefs about Marriage and the Family. They will now be moving onto ‘Living the Christian Life’ which looks at the key features of being a Christian and how this impacts their everyday lives. Throughout the topic they will look at the following:

- **Christian Worship**

- Sacraments
- Prayer
- The Local Church
- The Worldwide Church
- The Future of the Church
- Pilgrimage
- Christian Celebrations

Recommended Resources

BBC Bitesize - <https://www.bbc.co.uk/bitesize/topics/zmdfqp3> - a helpful website which provides an overview of the different beliefs and practises of Christianity.

TrueTube – videos exploring some key Christian ideas and interviews with practicing Christians. [Award winning free resources for RE, PSHE and Citizenship \(truetube.co.uk\)](https://www.truetube.co.uk)

Philosophy Foundation – some P4C style questions to keep the philosophical mind occupied
<https://www.philosophy-foundation.org/enquiries/age:39>