Year 12 Autumn Term Curriculum Plan 1

This document is designed to provide an overview of the content of the curriculum that each department will be addressing over the Autumn Term. Each department has provided information on the topics/ content addressed, resources being used and information on tasks that will be assessed. If you have any queries please direct these into the Progress Team on the email address below as a primary point of contact.

**Communication Tools**

Teachers may be sending activities home for pupils using one of three methods: Gmail, Teams or Google Classroom. All pupils have a Gmail address which allows them to access Google Classroom. The address is their 6 digit user number @ypant.co.uk and the password will be the same as the one they use to log into the computer at school.

**HWB Teams**

HWB Teams are online collaborative working environments for teachers and learners. Many classes have a Teams group and staff can post material, information and assignments in the classroom for pupils to view and complete.

To access HWB Teams students should:



**Google Classroom**

Google Classrooms are online collaborative working environments for teachers and learners. Many classes have a Google Classroom and staff can post material, information and assignments in the classroom for pupils to view and complete.

To access Google Classrooms students should:

* Log in to their school Gmail.
* They will see the 9 dot icon the right-hand corner of the screen ❶
* By clicking this, students can access the full range of Google Suite for Education services including Google Classroom. ❷
* All of the classrooms a pupil has access to will appear in their browser so they can select the classroom of the subject they want to access.
* Google Classroom apps can also be downloaded for mobile devices and tablets and if push notifications are enabled, they will inform you of any new material or assignments as they are set.

**HWB Teams**

HWB Teams are online collaborative working environments for teachers and learners. Many classes have a Teams group and staff can post material, information and assignments in the classroom for pupils to view and complete.

To access HWB Teams students should:

**Year Group Contact Details**

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| --- | --- | --- |
| **Head of Progress** | Mrs S. Nowell-Hughes | sixthform@ypant.co.uk |
| **Assistant Head of Progress** | Mrs K. Munday |
| **Senior Leadership Link** | Ms L. Bunce |

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| **Year 12 English** |  |
| **Topic Overview** | Owen Sheers and Seamus Heaney poetry comparisonJane Eyre studies |  |
| **Assessed****Tasks** | Extract questions on Y Gaer and Winter Swans by Sheers; on The Strand at Lough Beg by HeaneyConflict essay on Sheers and Heaney’s poetryJane Eyre extractJane Eyre essay  |  |
| **Resources** | See your class Teams for uploaded work. Please contact your A Level teachers for copies of PowerPoints missed or tasks to be completed. |  |
| **Year 12 Maths** |  |
| **Topic Overview** |

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|  | ***Unit 1 ( Pure maths)*** |  |
|  *Indices & Surds* |  *Rules of indices* *Manipulation of expressions involving indices* *Expanding and simplifying surds* *Rationalising the denominator* |  *My Maths* |
|  *Quadratic Functions* |  *Inequalities (linear and quadratic)* *Nature of roots using discriminant* *Completing the square* *Maximum and minimum values of a function* *Solving equations using factors and formula methods* | *My Maths*  |
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|  *Differentiation* | *Gradient of tangent as the limit of the gradient of the chord* *Differentiation from first principles* *Derivative as a rate of change* *2nd derivatives* *Differentiating polynomials d/dx of  xn = nxn-1* | *My Maths*  |
|  *Applications of Differentiation* | *Identification of stationary points* *Use of 2nd derivative and 1st derivative to identify max., min. and points of inflection* *Optimisation problems* *Increasing and decreasing functions* | *My Maths*  |

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|  *Logarithms* |  *Laws of logarithms ( including proofs )**Solving equations of form ax = b* *Know that ln x is the inverse function of ex* |  *My Maths* |

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|  | ***Unit 2 ( Applied Maths)*** |  |
|  *Statistical Sampling* | *Understand use and select or critique sampling techniques in the context of solving a statistical problem.* *Random sampling, systematic sampling and opportunity sampling* | *My Maths* |
| *Data presentation and Interpretation* | *Construct and interpret Histograms, cumulative frequency graphs and box plots* *Calculate standard deviation* *Interpret scatter diagrams and understand interpretation of correlation* *Recognize and interpret outliers in data sets.* *Select or critique data presentation techniques in the context of a statistical problem (being able to clean data)* |  *My Maths* |
| *.Probability* |  *Use Venn diagrams along with mutually exclusive and independent events when calculating probabilities.* |  |

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| **Assessed****Tasks** | *Assessed homeworks**Half-term test* |  |
| **Resources** |  My Maths |  |
| **Year 12 Further Maths** |  |
| **Topic Overview** | See year 13 A level MathsYear 12FM consists of A level Maths in one year. |  |
| **Assessed****Tasks** | Half-termly test |  |
| **Resources** | My Maths |  |
| **Year 12 Biology** |  |
| **Topic Overview** | **Cells and Organelles** - the nucleus, mitochondrion, endoplasmic reticulum, Golgi body, lysosomes, microtubules, ribosomes, vacuole, chloroplast, cell wall, eukaryotic vs prokaryotic cells, viruses, tissue organisation and microscopy. **Biological Molecules -** Water, carbohydrates, triose sugars, pentose sugars, hexose sugars, disaccharides, polysaccharides, Lipids- Phospholipids, triglycerides |  |
|  |
| **Assessed Task** | **Cell organelles assessed homework****Cell organelles test****Water and carbohydrates test****Lipids, carbohydrates and water test** |  |
| **Resources** | School produced booklets and lab booklets.Homework set via Teams / SIMS Home Learning: Microsoft team - A team has been created for each class and this will be managed by individual class teachers. Check Teams for scheduled virtual lessons (this may not always be appropriate). **Bioninja website** |  |
| **Year 12 Chemistry** |  |
| **Topic Overview** | Basic ideas about atoms and Radioactivity booklet: Structure of the atom; Ionisation energy; Spectroscopy; Types of radiation; Nuclear equations; Half-life;  |  |
| **Assessed****Tasks** | Worksheets at the back of the booklet.End of unit test |  |
| **Resources** | Departmental booklets WJEC revision booklet/website |  |
| **Topic Overview** | Introduction to Organic Chemistry, Hydrocarbons and Periodic Table BookletsNaming Compounds; Identifying different types of reactions; Crude oil and hydrocarbons; Structure of alkenes;; Reactions of hydrocarbons and their derivatives; Trends and Reactions of elements in the Periodic Table. |  |
| **Assessed Tasks** | Key Tasks within the booklets.End of booklet tests. |  |
| **Resources** | Departmental BookletsWJEC revision booklet/website/past papers and mark schemes |  |
| **Year 12 Physics** |  |
| **Topic Overview** | 1. Uncertainty and Error Analysis2. The Basics of Physics and Kinematics: Units and Prefixes, Vectors, Kinematics Definitions, Travel Graphs, Equations of Motion, g by Freefall, Projectiles. 3. Dynamics A: Newton’s Laws, Freefall and Terminal Velocity, Force Vectors. 4. Dynamics B: Momentum and Moments. 5. Solids Under Stress: Hooke’s Law, Young’s Modulus, Classification of Materials and Features of Force – Extension Graphs.Skills include: Numeracy, Literacy, Communication and Practical Skills, along with revision skills. |  |
| **Assessed****Tasks** | 1. No assessments2. 3 assessed homework tasks, an entry test and an end of topic test.3. 3 assessed homework tasks and an end of topic test.4. 2 assessed homework tasks and an end of topic test.5. 1 assessed homework task and an end of topic test. |  |
| **Resources** | Physics Booklets. Watch appropriate scientific TV programmes. Read appropriate Newspaper Articles. New Scientist Magazine. WJEC Physics for AS Level. Mathematics for A Level Physics – a course companion. Selection of Books available from department – ask teachers for advice. <https://www.bangor.ac.uk/going-to-university/revision-guides/physics-en-2019>Teams Groups set up for each class. |  |
| **Year 12 Art** |  |
| **Topic Overview** | Unit 1 Personal Creative Enquiry.Foundation skills unit (8 weeks) exploring The Formal Elements in Art and Design. Coursework unit investigating the theme ‘Relationships’. They will choose an area they wish to pursue and will follow their chosen lines of enquiry to create a finished end piece(s). All work must be supported by a range of direct observation work in a range of media, Contextual research looking at relevant artists / designers / craft workers as well as development and ongoing evaluation.  |  |
| **Assessed****Tasks** | Ongoing assessment of practical work.  |  |
| **Resources** | SketchbookDrawing and colour based mediaTeams classroom ls3ii6jMuseum and gallery websites[AS/A Level Art and Design (wjec.co.uk)](https://www.wjec.co.uk/qualifications/art-and-design-as-a-level#tab_overview) |  |
| **Year 12 Business** |  |
| **Topic Overview** | * Understand different types of businesses and their objectives
* Understand how the functional areas of businesses work together to support the activities of businesses
* Understand the effect of different organisational structures on how businesses operate
* Be able to use financial information to check the financial health of businesses
* Understand the relationship between businesses and stakeholders
* Understand the external influences and constraints on businesses and how businesses could respond
* Understand why businesses plan
* Be able to assess the performance of businesses to inform future business activities
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| **Assessed****Tasks** | Class tests October (section A)November (section C) |  |
| **Resources** | https://ocr.org.uk/Images/294523-the-business-environment.pdf |  |
| **Year 12 Computer Science** |  |
| **Topic Overview** | **KD*** Hardware and communication
* Logical operations
* Data transmission

**OC*** Organisation of Data
* Database Systems
* Algorithms and Programs
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| **Assessed****Tasks** | Topic test on three topics listed above for KD |  |
| **Resources** | Class notes that should be taken home every lesson.<https://www.bbc.co.uk/bitesize/guides/z7qqmsg/revision/4><https://isaaccomputerscience.org/concepts/prog_concepts_logical?examBoard=all&stage=all><https://www.computerscience.gcse.guru/theory/data-transmission><https://www.computerscience.gcse.guru/theory/serial-parallel-data-transmission> |  |
| **Year 12 Design Technology** |  |
| **Topic Overview** | Final AS Level coursework - folder work, sketchbook and practical |  |
| **Assessed****Tasks** | Investigating the problems, coming up with briefs, End User Profile, specification, Initial Ideas, design development and modelling. |  |
| **Resources** | TEAMS assignments |  |
| **Year 12 Drama** |  |
| **Topic Overview** | **Unit 1: Theatre Workshop*** Frantic Assembly
* Verbatim Theatre - Laramie Project and London Road

**Unit 2: Text in Theatre*** A View From the Bridge
* Actor/Director/Costume/Lighting/Sound/Set Design/
* Analyse and Evaluate live productions.
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| **Assessed****Tasks** | * Frantic Assembly Devising - Script and realisation
* Lighting Question - Mock AVFTB
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| **Resources** | Y12 BookletVocab BookletAVFTB Revision BookletAccess to TEAMS Access to dramaonlinelibrary.comScripts:‘London Road’‘Laramie Project’‘A View From the Bridge’ |  |
| **Year 12 Government and Politics** |  |
| **Topic Overview** | **Unit 1-**The British Constitution**Unit 2-**Citizenship and rights in the UK | T |
| **Assessed****Tasks** | Timed essays and practice exam questions.  |  |
| **Resources** | Keep up to date with UK news and politics via: <https://www.bbc.co.uk/news/politics><https://www.theguardian.com/politics> <https://www.independent.co.uk/news/uk/politics><https://www.parliament.uk/> <https://www.gov.uk/> <https://gov.wales/> <https://www.assembly.wales/en/Pages/Home.aspx> <https://www.walesonline.co.uk/allabout/politics> TEAMS code- Miss Hodnett - 9lqom0bMrs Ingham -1pbl70x |  |
| **Year 12 Geography** |  |
| **Topic Overview** | **Unit 1: Changing Landscapes**• Coastal Landscapes• Tectonic Hazards **Unit 2: Changing Places** |  |
| **Assessed****Tasks** | Three structured questions with stimulus material, one of which tests research/fieldwork  |  |
| **Resources** | Microsoft Team set up for the cohort, code: **lc6zlv4**All supporting resources on Teams in specification order. he following websites and textbooks will also be useful: http://www.worldwildlife.org/home.html http://www.ace.mmu.ac.uk/resources/gcc/5-3-1.html <http://www.ecn.ac.uk/environmental_indicators.htm>http://en.wikipedia.org/wiki/Kyoto\_Protocol http://www.rgs.org/OurWork/Schools/Resources/Case+studies.htm http://www.geonet.org.nz/index.html http://www.esta-uk.org/main.html http://volcano.und.edu/vwdocs/kids/vrtrips.html Hazards and responses, Victoria Bishop,Collins Educational, 1998, p67 & 125-138 Advanced geography, Concepts and Cases, Paul Guiness, Garrett Nagle Geography: An Integrated Approach, David Waugh, Nelson Thornes 3rd ed 2002 The WJEC revision guides may be useful: Unit 1 Changing Landscapes: https://www.hoddereducation.co.uk/subjects/geography/products/a-level-(1)/wjeceduqas-as-a-level-geography-student-guide-2 Unit 2: Changing Places: https://www.amazon.co.uk/Eduqas-level-Geography-StudentGuide/dp/1471864057/ref=sr\_1\_8?dchild=1&keywords=wjec+as+geography+revision+guide&qid=1599815880&s r=8-8  |  |
| **Year 12 History** |  |
| **Topic Overview** | **Unit 1** The History of Wales and England 1780-1880 The first half of the AS course namely: * The Tory party 1815- 1830
* Popular Protest

**Unit 2** * Weimar Germany 1918-1923
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| **Assessed****Tasks** | Timed essays and source analysis tasks, towards the end of this half term. Time and date to be determined. Past paper exam questions.  |  |
| **Resources** | School produced bookletsHistory channelYoutube**TEAMS CODE Mr Sweet- 12B - q16vx3h 12E - br7z5cx****Miss Hodnett-** q16vx3h |  |
| **Year 12 ICT** |  |
| **Topic Overview** | **Unit 1- Fundamentals of ICT (KD)*** Computer Components
* Types of computer systems
* Connectivity

**Unit 2 - Global Information (OC)*** Devices and the Internet
* Information Styles
* Categories and Analysis
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| **Assessed****Tasks** | Unit 1- Test based on the 3 topics for Unit 1 above Unit 2- Test based on 3 topics listed for Unit 2 above |  |
| **Resources** | The following website will guide you through all the topics listed above and also offers key questions at the bottom of each page to practice:-<https://www.csnewbs.com/ocr-cambridge-technicals> |  |
| **Year 12 Music** |  |
| **Topic Overview** | **Unit 2 - Composition**FREE COMP PREPARATION**Unit 3 - Appraisal**JAZZ AND WESTERN CLASSICAL |  |
| **Assessed****Tasks** | APPRAISAL - BACH CHORAL/HAYDEN - SYMPHONY 1 & 3 AND 45JAZZ APPRAISAL AND THEORY - CHET BAKER/TAKE 5 |  |
| **Resources** | **Please find work and resources on TEAMS.**  |  |
| **Year 12 Media Studies** |  |
| **Topic Overview** | Section A - representation in print texts - adverts and charity materials. Section C - Teen movie genre |  |
| **Assessed****Tasks** | Section A - Analysis of a print textSection C - Essay on genre |  |
| **Resources** | Check Teams for relevant resources. Use Youtube for explanation videos |  |
| **Year 12 Physical Education** |  |
| **Topic Overview** | Unit 1; Topics cover - Exercise Physiology; Sports Psychology and Socio Cultural Issues in SportEach of the three teachers will provide a specific topic from above. |  |
| **Assessed****Tasks** | Past paper questions for each topic above. |  |
| **Resources** | TEAM CODE: 9mhth2qSchool produced work bookletAny homework will be on teams; pupils should work through workbook used in class if off with COVID.WJEC Resources - <https://resources.wjec.co.uk/pages/ResourceByArgs?subId=23> |  |
| **Year 12 Psychology** |  |
| **Topic Overview** | Completing the research methods topic (unit 2).Book 1 - aims, hypotheses, variables, ethics, reliability and validityBook 2 - location of research, research types, sampling, experimental designBook 3 - data analysisLive lessons will be available if unable to attend.All class materials uploaded to teams and students must save their own copy before editing |  |
| **Assessed****Tasks** | Practice questions for each booklet preparing for the main assessmentAssessment at the end of each of the 3 booklets (3rd one will feed into next half term)Self-assessed past paper questions |  |
| **Resources** | 3 bookletsTeams group - class code - ke5mrdq for 12C (Tuesday/Thursday class)* 0n2kk5t for 12 D (Monday/Wednesday class)

[www.bps.org.uk](http://www.bps.org.uk) research relevant and most recent research publishedText book will be needed after half term. Link is to amazon but can be purchased elsewhere (check publication date is 2015) [https://www.amazon.co.uk/Complete-Companions-WJEC-Psychology-PSYCHOLOGY/dp/0198359179/ref=sr\_1\_6?dchild=1&keywords=as+psychology+text+book&qid=1632824647&qsid=257-0550999-5044616&sr=8-6&sres=0198356102%2C1845900936%2C1912820420%2C0198359179%2C1447982460%2C1782943307%2C0198436327%2C0198332750%2C190868240X%2C0340966831%2C1471835901%2C1510483012%2C1912820463%2C1471834883%2CB07GRBB9WQ%2C1510468676&srpt=ABIS\_BOOK](https://www.amazon.co.uk/Complete-Companions-WJEC-Psychology-PSYCHOLOGY/dp/0198359179/ref%3Dsr_1_6?dchild=1&keywords=as+psychology+text+book&qid=1632824647&qsid=257-0550999-5044616&sr=8-6&sres=0198356102%2C1845900936%2C1912820420%2C0198359179%2C1447982460%2C1782943307%2C0198436327%2C0198332750%2C190868240X%2C0340966831%2C1471835901%2C1510483012%2C1912820463%2C1471834883%2CB07GRBB9WQ%2C1510468676&srpt=ABIS_BOOK)  |  |
| **Year 12 Sociology** |  |
| **Topic Overview** | Unit 1- Acquiring Culture- Booklet 1 - This half term we will be working through this booklet - reading the notes and then completing all set tasks throughout. This will inform the end of the unit test that will consist of 2 exam style questions. Accompanying pp will be uploaded to our class Teams account. Unit 2 - Approaches to Sociological Research - working through the yello booklet. All handouts and PowerPoints in Teams. Look in Files in the “Ms Bunce” channel. |  |
| **Assessed****Tasks** | End of Unit Test on the Acquiring Culture BookletPast paper question on research methods. |  |
| **Resources** | Text bookUnit 1 Acquiring Culture Booklet Unit 2 Approaches to Sociological Research BookletTeams |  |
| **Year 12 Welsh Baccalaureate** |  |
| **Topic Overview** | Global Challenge Task 1 & 2  |  |
| **Assessed****Tasks** | You should outline your approach to tackling the issue by constructing a clear, coherent, well-argued and convincingargument, viewpoint or perspective, offering creative and innovative approaches to tackle the issue. |  |
| **Resources** | Google Classroom |  |
|  **Year 12 REP** |  |
| **Topic Overview** | **Hinduism****Theme 4: : Religious practices that shape religious identity (part 1)** 1. Puja in the home and the mandir
2. Festival - Holi
3. Festival - Durga Puja

**Ethics****Theme 1: Ethical Thought:*** Divine Command Theory
* Virtue Theory
* Ethical Egoism

**Philosophy****Theme 1: Arguments for the Existence of God - Inductive:*** The Cosmological Argument
* The Teleological Argument
* Alternative Views
 |  |
| **Assessed****Tasks** | **Hinduism:**1. Essays on knowledge and understanding of the theme
2. Essays on the issues/evaluation of the theme

**Ethics:**1. Explain the Divine Command Theory. [30]
2. ‘Morality is what God commands’. Evaluate. [30]

**Philosophy Essay Titles:**1. Explain the Cosmological Argument for God’s existence. [30]
2. ‘The Kalam Cosmological Argument is Unconvincing’. Evaluate. [30]
 |  |
| **Resources** | * Booklets
* PowerPoints on Teams
* WJEC website
* Philosophy Ninja Channel (YouTube)
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