Year 10 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 two methods: Gmail or Teams.. 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. Pupils will also have a HWB email address to access Teams.

**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** | Miss M Jones | 2023@ypant.co.uk |
| **Assistant Head of Progress** | Mr D Davies |
| **Senior Leadership Link** | Mr Kuck |

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| **Year 10 English** |
| **Topic Overview** | Pupils are planning their coursework on Macbeth, answering the following question prescribed by the board:“‘Look like th’ innocent flower, but be the serpent under’t. Examine how Macbeth follows this advice throughout the play.”Following this, pupils will be studying unseen poetry for a comparison of two unseen poems in a mock at the end of term. |
| **Assessed****Tasks** | Macbeth:Extract analysis on Act 1 Scene 5 in September 2021Macbeth NEA coursework, completed in November 2021PoetryComparison of two unseen poems in Christmas mock |
| **Resources** | <https://www.bbc.co.uk/bitesize/topics/zgq3dmn><https://classroom.thenational.academy/units/macbeth-a8f1><https://classroom.thenational.academy/units/introduction-to-poetry-335c>The school have paid for a subscription to Massolit and all pupils are able to create an account to access these English resources too at <https://www.massolit.io/> (excellent series of lectures on Macbeth) |
| **Year 10 Maths** |
| **Topic Overview** | **Use Mymaths:****Username: ypant****Password: hexagon****Foundation Tier:**Whole number arithmetic:* Numbers in words and figures
* 4 rules (addition, subtraction, multiplication and division)
* Rounding to the nearest 10, 100, 1000
* Estimation and checking
* Order of operations - BODMAS

Numbers and patterns:* Types of No. – odd, even, multiples, factors, primes, squares, cubes & roots
* Number Patterns

Fractions:* Whole numbers and mixed fractions
* Equivalence of fractions
* Fractions of quantities
* Adding and subtracting (simple denominators)
* Problems involving fractions

Time:* Units of time
* Reading tables
* 24-hour clock

**Intermediate Tier:**Numbers: Approximating & Rounding* Place Value & comparison
* Rounding – significant figures
* Estimating & Checking
* Fractions & Decimals – converting and comparing

Transformations:* Coordinates – quick revision
* Translations ( using column vectors)
* Reflections
* Rotations
* Enlargements including Scale factor
* Centre of enlargement
* Combined Transformations

Dealing with data:* Bar charts, pie charts & pictograms
* Scatter graphs and correlation
* Grouped Frequency Diagrams & Frequency Polygons

Number patterns and sequence:* Multiples, factors & primes
* Square & triangular numbers
* Number patterns
* Nth term of a sequence (linear)

**Higher Tier:**Types of number:* Types of Number
* HCF & LCM
* Prime Factors
* Rational Numbers
* Irrational Numbers
* Surds

Transformations:* Translations ( using column vector notation)
* Enlargements
* Rotations
* Reflections

Statistical Diagrams* Pie charts
* Scatter graphs and correlation
* Frequency polygons
* Histograms (unequal class intervals)

Sequences* Linear

Straight line graphs* Gradient
* Equation of a Straight Line
* Parallel & Perpendicular Lines
 |
| **Assessed****Tasks** | * Key task week 4
* Test 1 Week 7
 |
| **Resources** | **My Maths** Username: ypantPassword hexagon |
| **Year 10 Biology** |
| **Topic Overview****Assessed****Tasks** | **The Environment** **Triple Award -** food chains, food pyramids, energy flow through a food chain, the carbon cycle, the nitrogen cycle, water pollution and eutrophication, pesticides and bioaccumulation, monitoring pollution using indicator species and intensive farming.**Double Award -** food chains, food pyramids, energy flow through a food chain, water pollution and eutrophication, pesticides and bioaccumulation, monitoring pollution using indicator species and intensive farming.**Cells** **Double Award (Y4, X4, Y5) -** investigating animal and plant cell structure, describing specialised cells, organ systems and their functions, electron vs light microscopy, magnification equations and movement in cells.  |
| **Assessed****Tasks** | **Triple Award:** * Environment - Test 1
* Environment - Test 2

**Double Award:** * Environment Test

**Double Award (Y4,X4, Y5)** * Cells Test
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| **Resources** | School produced bookletsHomework 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). GCSE Bitesize - Key Stage 4 |
| **Year 10 Chemistry** |
| **Topic Overview** | **For all courses:**Atomic Structure and The Periodic Table booklet: The periodic table; Metals and Non-metals; The structure of the atom; Isotopes. |
| **Assessed****Tasks** | **For all courses:**Assessed homework, see booklet. ChecklistEnd of booklet test. |
| **Resources** | **For all courses:**GCSE bitesize WJEC webpage Y Pant booklet  |
| **Year 10 Physics** |
| **Topic Overview****Assessed****Tasks** | 10 DA Physics Foundation/DA Physics Higher/Separate Physics (Pupils in different classes will be studying the booklets below in different orders).1. Waves: Transverse and Longitudinal, Wave Terms and Wave Equations, Speed of Water Waves, Reflection and Refraction, The Electromagnetic Spectrum and Ionising Radiation and Satellites.
2. Density, Heat Transfer and Heat Loss in Homes: Density, Conduction, Convection and Radiation, Heat Loss In Homes and Insulation, Payback Time.
3. Kinetic Theory: Pressure, Kinetic Model of Gases, Absolute Temp Scale, Gas Laws including Boyles Law, PV/T = Constant, Specific Heat Capacity and Latent Heat, Changes in Temperature and State due to Heat Transfer and Behaviour of Molecules when Heat Energy is Supplied to a Substance.
4. Electromagnetism: Magnets, Magnetic Fields Around Magnets and Wires Carrying Current, Electromagnets, The Motor and Left Hand Rule, F = BIl equation, Electromagnetic Induction , Induced Current and the Right Hand Rule, Electric Generators/Dynamos, Distributing Electricity, Power, Transformers and the Transformer Equation.
5. Domestic Energy and Electricity: Power and Paying for Electricity, AC and DC, Fuses and Circuit Breakers, Calculating Fuse Values and Ring Mains.
6. Current, Voltage and Resistance: Circuit Symbols, Series and Parallel Circuits, Resistance and Ohms Law, Resistors in series and parallel, I – V Characteristics of Resistors, Bulbs, Thermistors and LDR’s, Electrical Energy and Power equations.

Skills include: Numeracy, Literacy, Communication and Practical Skills, along with revision skills. |
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| **Assessed****Tasks** | 1. Past paper Questions on Transverse and Longitudinal, Wave Terms and Wave Equations, Speed of Water Waves, Reflection and Refraction, The Electromagnetic Spectrum and Ionising Radiation and Satellites. Assessed Homework on Transverse and Longitudinal, Wave Terms and Wave Equations, Speed of Water Waves, Reflection and Refraction and The Electromagnetic Spectrum and Ionising Radiation. End of Topic Test on Waves. 2. Past paper Questions on Density, Conduction, Convection and Radiation, Heat Loss In Homes and Insulation, Payback Time. Assessed Homework on Density, Conduction, Convection and Radiation (Key Task). End of Topic Test – Density, Heat Transfer and Heat Loss in Homes.3. Past paper Questions on Pressure, Kinetic Model of Gases, Absolute Temp Scale, Gas Laws including Boyles Law, PV/T = Constant, Specific Heat Capacity and Latent Heat, Changes in Temperature and State due to Heat Transfer and Behaviour of Molecules when Heat Energy is Supplied to a Substance. Assessed homework on Pressure, Kinetic Model of Gases, Absolute Temp Scale, Gas Laws including Boyles Law, PV/T = Constant, Specific Heat Capacity and Latent Heat, Changes in Temperature and State due to Heat Transfer and Behaviour of Molecules when Heat Energy is Supplied to a Substance. End of Topic Test – Kinetic Theory.4.. Past paper Questions on all topics included in the Electromagnetism booklet, marked in class. Assessed homework on all topics included in the Electromagnetism booklet. End of Topic Test – Electromagnetism.5. Past paper Questions on Domestic Energy and Electricity. Assessed Homework on Power and Paying for Electricity. End of Topic Test – Domestic Energy and Electricity. 6. Past paper Questions on Current, Resistance and Simple circuits, marked in class. Assessed homework on Circuit Symbols, Series and Parallel Circuits, Resistance and Ohms Law, I – V Characteristics of Resistors and Bulbs End of Topic Test - Current, Resistance and Simple circuits. |
| **Resources** | Physics Booklets. www.thestudentroom.co.uk. [www.gcse.com](http://www.gcse.com).www.fizzics.org/gcse-physics-notes-and-video. www.bbc.co.uk/schools/gcsebitesize. Watch appropriate scientific TV programmes. New Scientist Magazine. <https://www.crickhowell-hs.powys.sch.uk/wp-content/uploads/2018/03/GCSE-Physics-Unit-1-RevisionBook-2018.pdf>.Teams Groups set up for each class. |
| **Year 10 Art** |
| **Topic Overview** | Students will continue to build up their Art Portfolio submission based on ‘Structures’. Students will be working on a 3d / Print project. |
| **Assessed****Tasks** | Ongoing assessment of individual Portfolio. The Portfolio is made up of class and homework tasks. |
| **Resources** | SketchbookRange of drawing materialsMuseum / Gallery websites.Teams classrooms - students signed up to class teams JAG: 01c09r0 SNH:chwwesu[GCSE Art and Design - BBC Bitesize](https://www.bbc.co.uk/bitesize/subjects/z6hs34j)[GCSE Art and Design (wjec.co.uk)](https://www.wjec.co.uk/qualifications/art-and-design-gcse#tab_overview) |
| **Year 10 Business** |
| **Topic Overview** | **Human Resources*** Training
* Organising staff
* Motivation
* Communication
* Working practices
* Employment laws
 |
| **Assessed****Tasks** | 10 mark question at the end of October (topic training or motivation)End of unit test - end of November (Human resources) |
| **Resources** | <https://www.wjec.co.uk/qualifications/business-gcse/#tab_overview>https://www.bbc.co.uk/bitesize/topics/z8hs34j |
| **Year 10 Computer Science** |
| **Topic Overview** | Topic Overview: User Interface building in Python & Subroutines in Python |
| **Assessed****Tasks** | Assessed Tasks: Create a tkinter window with at least 5 user entry boxes for a sample user registration window (for example: first name, age, email address...), and add a button that links to a function that validates the entries |
| **Resources** | <https://www.csnewbs.com/python-11-gui><https://www.csnewbs.com/python-7a-procedures> |
| **Year 10 Construction** |
| **Topic Overview** | UNIT 1 Safety and Security in Construction. |
| **Assessed****Tasks** | Internally assessed exam. |
| **Resources** | Construction Booklet.Class TEAMS assignments. |
| **Year 10 Drama** |
| **Topic Overview** | **Unit 1 and 3: Theatrical Design*** Set
* Costume
* Lighting
* Sound
 |
| **Assessed****Tasks** | * Mock exam questions
* Romeo and Juliet: Costume/Set Design (realisation and evaluation)
 |
| **Resources** | Year 10 Drama bookletTEAMS - individual work and tasksHomework set via TEAMS and sims.  |
| **Year 10 Engineering** |
| **Topic Overview** | Practical Task - Towers of Hanoi |
| **Assessed****Tasks** | Metal Lathe skills - facing off, dimensional accuracy, adding thread. |
| **Resources** | Work on TEAMS.In - class activities.Engineering booklet. |
| **Year 10 Food and Nutrition** |
| **Topic Overview** | Specific dietary needs, cake making |
| **Assessed****Tasks** | Specific dietary needs testDutch apple cake practical |
| **Resources** | Each class has a team. Resources uploaded on their teams. |
| **Year 10 Geography** |
| **Topic Overview** | **Core Theme Two: Rural-Urban Links** Key Idea 2.1 The urban-rural continuum in Wales Key Idea 2.2 Population and urban change in the UK Key Idea 2.3 Urban issues in contrasting global cities  |
| **Assessed****Tasks** | Two structured data response questions with extended writing.  |
| **Resources** | Microsoft Team set up for the cohort, code: **ihjvz5a**All supporting resources on Teams in specification order. The WJEC GCSE Geography revision guide may be Page 9 of 14 useful: <https://www.hoddereducation.co.uk/subjects/geography/products/14-16/my-revision-notes-wjec-gcsegeography> |
| **Year 10 History** |
| **Topic Overview** | **Medicine through time, c1340- to the Present day**Medieval and Early Modern medicine 1340- 1750Thematic topics:* Advances in medical knowledge
* Causes of illness and disease
* Attempts to prevent and cure illness and disease
* Attempts to treat illness and disease
* Developments in patient care
* Developments in public health
 |
| **Assessed****Tasks** | Practice exam questions from Medieval and Early Modern booklet.End of module mock exam on this period Q1, Q3-6. |
| **Resources** | School produced knowledge booklet (blue cover)Exam questions booklet (white cover)Youtube - Medicine through time channel <https://www.youtube.com/watch?v=nVJV8iEAm88>Powerpoints uploaded to teams.**Teams Codes- Teams will be set up for each class.**MR SWEET- 10B - z4sc841, 10C - wbkbhjoMiss Hodnett - 10A - 3n92nzq |
| **Year 10 Health, Social and Child Care** |
| **Topic Overview** | Service provision - Investigate service provision locally and nationally to meet the needs of children, adolescents or adults |
| **Assessed****Tasks** | Introduction Regulation of careHealth Care, Social Care and Childcare Services Service Fact Files |
| **Resources** | Team code - me8lnq3 |
| **Year 10 Textiles** |
| **Topic Overview** | Printmaking  |
| **Assessed****Tasks** |  |
| **Resources** | Isolation packs Team code - 35tqmkv |
| **Year 10 Digital Technology**  |
| **Topic Overview** | Unit 2- Controlled assessment (this can only be done within the classroom)- although students can practice practical skills through Hwb at home using Adobe Animate and Adobe Dreamweaver. |
| **Assessed****Tasks** | WJEC Controlled Assessment |
| **Resources** | <https://www.wjec.co.uk/qualifications/digital-technology-gcse/#tab_overview> <https://www.youtube.com/watch?v=E-doxha22QI-> Adobe Animate tutorials |
| **Year 10 Life Skills** |
| **Topic Overview** | Unit 2 Equality and Diversity in the Community parts 1 - 41. The extent of Diversity
2. Understanding the value of diversity
3. Inequality in communities
4. Support services
 |
| **Assessed****Tasks** | Use the blue class booklet (E&D Unit 2 Booklet) and the PowerPoints to complete the assessment questions in the assessment booklet as instructed. If pupils do not have this then they need to complete the work on paper and give it to their teacher when they return or complete it electronically and email it to them. |
| **Resources** | All available on Teams - Year 10 Life Skills Resources. Code to join is lphg6t9. Some classes may have individual class pages as well.  |
| **Year 10 Music** |
| **Topic Overview** | ‘Everything Must Go’ - Brief - Unit 3 Unit 2 Composition Unit 1 Performance |
| **Assessed****Tasks** | Group performance of ‘Everything Must Go’Composition to set brief ‘pop song’Appraising Q7 and Q8 |
| **Resources** | **Please find all resources and instructions on TEAMS.**  |
| **Year 10 Media Studies** |
| **Topic Overview** | U1A Representation of Gender in Advertising and Video Games |
| **Assessed****Tasks** | Key Task - Analysis of representation of gender in a print text (advert or video game) |
| **Resources** | U1A Booklet - hard copy and digital copy uploaded on TeamsUse youtube for explanation and revision videos |
| **Year 10 Physical Education** |
| **Topic Overview** | Catching up of Unit 1 & 2; Focus on unit 2b; Cardiovascular SystemStart Unit 3 towards end of Autumn Term - Movement Analysis |
| **Assessed****Tasks** | **End of Topic Test 2b****Key Task - movement analysis;****Booklet topic questions** |
| **Resources** | School produced booklets - Unit 3Homework set via Teams - each class has their own.Home Learning: Microsoft teams - A team has been created for each class and this will be managed by individual class teachers. GCSE Bitesize - Key Stage 3/4; WJEC - Physical Education |
| **Year 10 Sport** |
| **Topic Overview** | Introduction to Unit 1 topic - ***Improving Sporting Performance*** |
| **Assessed Tasks** | Booklet questionsKey Task |
| **Resources** | School produced booklet - UNIT 1Homework set via Teams - each class has their own.Home Learning: Microsoft teams - A team has been created for each class and this will be managed by individual class teachers. GCSE Bitesize - Key Stage 3/4; WJEC - Physical Education |
| **Year 10 Religion, Ethics and Philosophy- GCSE**  |
| **Topic Overview** | **Life and Death: Judaism, Christianity, and Humanism:*** Creation - Christian, Jewish, Humanist and Scientific Ideas
* Stewardship
* Sanctity of Life
* Quality of Life
* Abortion
* Euthanasia
* The Soul
* The Afterlife
* Funerals
 |
| **Assessed****Tasks** | * Practice Exam Questions
* Mid-unit test (Exam Conditions)
 |
| **Resources** | * Booklet
* Teams
* BBC Bitesize - KS4 - Life and Death
 |
| **Year 10 Product Design** |
| **Topic Overview** | In - depth subject knowledgeEngineering Drawing/Technical informationTea light holder  |
| **Assessed****Tasks** | Tea light holder - Cardboard model and also MDF final model. |
| **Resources** | TEAMS assignments.In-depth knowledge booklet |
| **Year 10 Spanish** |
| **Topic Overview** | El ocio y el tiempo libreFree time activities and reasons to do them , TV, music , books...Grammar : past tense  |
| **Assessed****Tasks** | Written and oral tasks at the end of the unit |
| **Resources** | Quizlet app to learn all your vocabulary Kahoot, Blooket and Gimkit to practice your vocabularyThe work completed in class is sent out to pupils at home. Make sure you check your Gmail on the days you have your Spanish lessons. Feel free to email your teacher if you wish to join your Spanish lesson at home.  |
| **Year 10 Welsh** |
| **Topic Overview** | Cymru a’r byd (Wales and the World) - Location of places in Wales, where you live, opinion on the area, facilities in the area, Cardiff, attractions in Wales |
| **Assessed****Tasks** | Key task - Unit 4 style writing task Key task - Unit 3 style reading task  |
| **Resources** |  All resources and PowerPoints will be uploaded to Teams at the beginning of each week. A team has been created for each class and this will be managed by individual class teachers.Additional resources:www.s4c.cymru/clic(Catch-up TV)www.geiriadur.net (dictionary)Download ‘Ap Geiriaduron’ - free dictionary app to your phone or tablet for instant translation of words. |
| **Year 10 Welsh Baccalaureate** |
| **Topic Overview** | **Global Challenge*** Raising awareness of chosen topic
* Personal reflection on the whole challenge
 |
| **Assessed****Tasks** | The whole challenge is controlled assessment and is supervised in lesson time. |
| **Resources** | <https://www.wjec.co.uk/qualifications/welsh-baccalaureate-national-foundation/#tab_overview> |