**Key Stage 5 – AS Physics – 2020/21**

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| **Welcome to Year 12**  **Marking:** Your work in this folder will be checked for accuracy and quality. Gaps and weaknesses in your work will be highlighted by your teacher. These must be completed by the following lesson.  **TIM Assessments:** These will be completed every half term. You will need to proof read and assess your work before giving in. You will then be given written teacher feedback that clearly identifies both the good features and any parts for you to complete to improve your work. These must be completed by the following lesson and should be stamped by a teacher as complete.  **Homework:** Homework will be set equivalent to at least 2 hours per week, although a lot of this will be revision and checking understanding of work completed in class. Any written homework must be clearly labelled in your folder under the title **Homework/Gwaith Cartref.** | | | | | | |
| Year : | Autumn Term | | Spring Term | | Summer Term | |
| Topic(s) | 1.1 Basic Physics (PG)  1.2 Kinematics (PG)  1.3 Dynamics (PG)  1.4 Energy Concepts (PG)  1.5 Solids under stress (ED)  1.6 Using radiation to investigate stars (ED)  1.7 Particles and Nuclear Structure (ED) | | 2.1 Conduction of Electricity (PG)  2.2 Resistance (PG)  2.3 D.C. circuits (PG)  2.4 The nature of waves (ED)  2.5 Wave properties (ED) | | 2.6 Refraction of light (ED)  2.7 Photons (ED / PG)  2.8 Lasers (ED / PG) | |
| TIM  Assessment | * 1. Basic Physics   2. Kinematics   1.3 Dynamics  1.5 Solids under stress | 1.4 Energy concepts  1.6 Using radiation to investigate stars  1.7 Particle Physics | 2.1 Conduction of Electricity  2.2 Resistance | 2.4 The nature of waves  2.3 D.C. Circuits | 2.6 Refraction of light  2.8 Lasers | N/A  Examinations  Unit 1 (90 minutes)  Unit 2 (90 minutes)  As above. |
| Homework  Half term 1 | TIM improvements.  Past paper questions from Unit 1 Booklet 1.   * Motion.   Past paper questions from booklet 1 Unit 2.   * Solid under Stress   End of term test. | | TIM improvements.  Past paper questions from Unit 1 Booklet 1.   * Forces.   Past paper questions from booklet 1 Unit 2.   * Particles.   End of term test. | | TIM improvements.  Past paper questions from Unit 1 Booklet 1.   * Energies.   Past paper questions from booklet 1 Unit 2.   * Stars.   End of term test. | |
| Homework  Half term 2 | TIM improvements.  Past paper questions from Unit 2 Booklet 1.   * Conduction. * Resistance.   Past paper questions from booklet 2 Unit 2.   * Waves.   End of term test. | | TIM improvements.  Past paper questions from Unit 2 Booklet 1.   * Photons. * Lasers   Past paper questions from booklet 2 Unit 2.   * Refraction.   End of term test. | | Revision for the external module examinations   |  | | --- | | Unit 1 examination (2420U10-1) | | Unit 2 examination (2420U20-1) | | |