**Old Buckenham High School | Year 11 – The Year Ahead | 11th October**

**PHYSICS GCSE**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Exam** | **Duration** | **Marks available** | **% of GCSE** | **Topics/ content** |
| Physics paper 1  | 1 hour 45 minutes | **100** | **50%**  | Topics 1-4: Energy; Electricity; Particle model of matter; and Atomic structure. |
| Physics paper 2 | 1 hour 45 minutes | **100** | **50%**  | Topics 5-8: Forces; Waves; Magnetism and electromagnetism; and Space physics. |

*Before revising, students should complete personal learning checklists for their subjects. These ask students to RAG rate both the topics/ content of their exams and also the skills they are required to use. Doing this will help them to identify priorities and make effective use of their revision time.*

**Personal Learning Checklists**

|  |  |  |  |
| --- | --- | --- | --- |
| **Topic (what I need to know)** | **R** | **A** | **G** |
| 1. Energy |  |  |  |
| 2. Electricity |  |  |  |
| 3. Particle model of matter |  |  |  |
| 4. Atomic structure |  |  |  |
| 5. Forces |  |  |  |
| 6. Waves |  |  |  |
| 7. Magnetism and electromagnetism |  |  |  |
| 8. Space physics |  |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
| **Skill** | **R** | **A** | **G** |
| Be able to extract data from a table or graph to support a conclusion or suggestion. |  |  |  |
| Structure longer questions to gain the maximum number of marks. |  |  |  |
| Name scientific equipment and be able to describe how to use it safely.  |  |  |  |
| Use scientific terms to explain your ideas.  |  |  |  |
| Use concept diagrams to express and idea.  |  |  |  |
| Find and explain patterns in data and observations. |  |  |  |
| Know required practical methods and the questions that might be applied to them.  |  |  |  |

**TOP REVISION TIPS FOR Physics GCSE**

You can find the GCSE specification at <http://www.aqa.org.uk/subjects/science/gcse/physics-8463>

**On-line resources**

You tube is a good place to look for videos of scientific methods and experiments that you might not remember or have missed in class. Make you have a thorough understanding of each **required practical** and how it can be performed safely. You can find a complete list including the suggested methods for each practical at <http://www.aqa.org.uk/resources/science/gcse/teach/practicals>

* Specific heat capacity
* Thermal insulation
* Resistance
* I-V characteristics
* Density
* Light
* Force and extension
* Acceleration
* Waves
* Radiation and absorption

There are also some helpful apps and websites that are free to visit;

* KS4 GCSE bitesize website <http://www.bbc.co.uk/education/subjects/zrkw2hv>
* My GCSEscience website <https://www.youtube.com/user/myGCSEscience>
* General KS4 science revision <http://www.gcsescience.com/>



Test your knowledge of GCSE Biology, Chemistry, Physics with these brilliant Test & Learn apps from CGP! They are perfect for a bit of quick-fire revision whenever you’ve got a few minutes’ spare. Test yourself on an individual science using the single science apps or if you are a higher tier student buy and download the GCSE Core & Add Science Apps for harder questions. What if I can’t afford to shell out £1.49 per app, I hear you say. Well, luckily there is a GCSE Science LITE app which gives you a sample of all the questions in the full app.

Price: £1.49 per app (free for the Lite app) App Store, Play Store