

Barnsley Academy – (Year) (Subject) Curriculum Overview 2023-24 (KS4 PHYS Year 10)

| Autumn Term | | | Spring Term | | | Summer Term | | |
|-------------|--|---|-------------|---|-------------------------------------|-------------|-------------|----------|
| | Class Focus | Homework | | Class Focus | Homework | | Class Focus | Homework |
| Week 1 | Energy Transfers Gravitational Potential Energy | Energy transfers | Week 1 | Density (RP) Density in liquids | Particles | Week 1 | | |
| Week 2 | Kinetic Energy KE + GPE (Higher) | Kinetic energy and GPE | Week 2 | Internal Energy Closing The Gap | Density (RP) | Week 2 | | |
| Week 3 | Elastic Potential Power | Elastic Potential | Week 3 | Specific Latent Heat Particle Motion in a gas | Specific Latent Heat | Week 3 | | |
| Week 4 | Energy Efficiency Closing The Gap | Energy and Efficiency | Week 4 | Volume and Gas Closing The Gap | Knowledge Quiz | Week 4 | | |
| Week 5 | SHC Calculations SHC Required Practical | SHC Calculations | Week 5 | P3 - EOUA Atoms and Isotopes | Gas Pressure | Week 5 | | |
| Week 6 | Insulation Required Practical Energy Resources | Thermal Conductivity | Week 6 | History of Atomic Structure Nuclear Decay | Isotopes | Week 6 | | |
| Week 7 | Closing The Gap P1 - EOUA | Energy Knowledge Quiz 20 questions | Week 7 | Half Life Closing the gap | History of the atom | Week 7 | | |
| Week 8 | Current and charge Ohm's Law | Energy Resources | Week 8 | Properties and uses. Irradiation and contamination | Half Life | Week 8 | | |
| Week 9 | Resistance in a wire (RP) Series Circuits | Ohm's Law | Week 9 | Background radiation Nuclear Fission and Fusion | Properties of alpha, beta and gamma | Week 9 | | |
| Week 10 | Parallel Circuits Component Characteristics | Resistance in a wire | Week 10 | Closing The Gap P4 - EOUA | Knowledge Quiz | Week 10 | | |
| Week 11 | Thermistors and LDR's Closing the Gap | Series and Parallel Circuits | | | | Week 11 | | |
| Week 12 | Appliances and Power Appliances and Energy | Thermistor | | | | Week 12 | | |
| Week 13 | National Grid Static Electricity | National Grid | | | | Week 13 | | |
| Week 14 | Closing The Gap P2 - EOUA | Electricity Knowledge Quiz 20 questions | | | | Week 14 | | |
| Week 15 | Particle Model Calculating Density | Static Electricity | | | | | | |
| Assessment | | | Assessment | | | Assessment | | |