

Physics Paper 1 Topics – WEDNESDAY 22nd MAY 2024

Use your Y9, Y10 & Y11 exercise books , the online textbook and resources on Kerboodle & Educake to help you revise

Energy & Energy Resources

Conservation & Dissipation of Energy

1. Changes in Energy Stores
2. Conservation of Energy
3. Energy & Work
4. Gravitational Potential Energy Stores
5. Kinetic Energy & Elastic Energy Stores
6. Energy Dissipation
7. Energy & Efficiency
8. Electrical Appliances
9. Energy & Power

Energy Transfer by Heating

1. Energy Transfer by Conduction
2. Infrared Radiation
3. *More about Infrared Radiation (HT)*
4. Specific Heat Capacity
5. Heating & Insulating Buildings

Energy Resources

1. Energy Demands
2. Energy from Wind & Water
3. Power from the Sun & Earth
4. Energy & the Environment
5. Big Energy Issues

Particles at Work

Electric Circuits

1. Electrical Charges & Fields
2. Current & Charge
3. Potential Difference & Resistance
4. Component Characteristics
5. Series Circuits
6. Parallel Circuits

Electricity in the Home

1. Alternating Current
2. Cables & Plugs
3. Electrical Power & Potential Difference
4. Electrical Currents & Energy Transfer
5. Appliances & Efficiency

Molecules and Matter

1. Density
2. States of Matter
3. Changes of State
4. Internal Energy
5. Specific Latent Heat
6. Gas Pressure & Temperature
7. *Gas Pressure & Volume (HT only)*

Radioactivity

1. Atoms & Radiation
2. The Discovery of the Nucleus
3. Changes in the Nucleus
4. More about alpha, beta & gamma radiation
5. Activity & Half-life
6. Nuclear Radiation in Medicine

7. Nuclear Fission
8. Nuclear Fusion
9. Nuclear Issues

Required Practicals

1. Determining Specific Heat Capacity
2. Investigating Thermal Insulators
3. Investigating Resistance
4. Investigating Electrical Components
5. Calculating Densities

**EQUATION SHEETS WILL BE PROVIDED FOR
SUMMER 2024 EXAMS – PLEASE MAKE SURE
YOU KNOW HOW TO USE THEM**