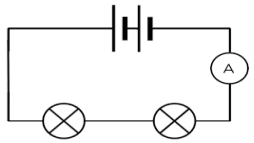
Year 10 Learning Journey Physics

St Michael's Catholic Academy Science



1. Standard circuit diagram symbols
2. Current, resistance and potential difference incl. RP to investigate factors affecting resistance and RP to investigate I-V characteristics and RP resistors
3. Series and parallel circuits
4. Domestic uses and safety incl. AC and DC, mains electricity
5. Power
6. Energy transfers in everyday appliances
7. The National Grid

End of Topic Assessment

P2 Electricity

YEAR 11

P4 Atomic structure

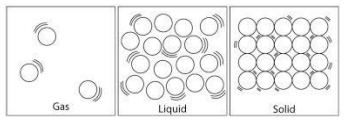
P3 Particle model of matter

P1 Energy

YEAR 10

1. Changes of state and the particle model
2. RP. Density
3. Internal energy and energy transfers
4. Particle model and pressure
5. ***Pressure in gases (SS Physics)***

End of Topic Assessment



1. The structure of the atom
2. Development of the model of the atom (common with chemistry)
3. Radioactive decay and nuclear radiation
4. Nuclear equations
5. Half-lives and the random nature of radioactive decay
6. Radioactive contamination
7. ***Hazards and uses of radioactive emissions and of background radiation (SS Physics)***
8. ***Nuclear fission and fusion (SS Physics)***

End of Topic assessment

1. Energy stores and systems
2. Changes in energy
3. Energy changes in systems
4. RP: Investigation to determine the specific heat capacity of materials
5. Power
6. Energy transfers in a system
7. Efficiency
8. National and global energy resources

End of Topic Assessment