

# **Overview of the KS3 Science Syllabus**

## **Year 7**

1. Speed and Gravity
2. Current, Voltage and Resistance
3. Energy Costs and Transfer
4. Waves (Light)
5. Particle Model and Separating Mixtures
6. Acids, Alkalis, Metals and Non-Metals
7. Earth Structure and the Universe
8. Cells and Movement
9. Interdependence and Plant Reproduction
10. Variation and Human Reproduction

## **Year 8**

1. Contact Forces and Pressure
2. Electromagnets and Magnetism
3. Work, Heating and Cooling
4. Waves (Sound)
5. Periodic Table and Elements
6. Chemical Energy
7. Earth Resources
8. Climate
9. Respiration and Photosynthesis
10. Evolution and Inheritance

## **Enquiry processes: working scientifically**

### **Enquire**

- Collect data
- Devise questions
- Plan variables
- Test hypotheses

### **Solve**

- Estimate risks
- Examine consequences
- Review theories
- Interrogate sources

### **Analyse**

- Analyse patterns
- Discuss limitations
- Draw conclusions
- Present data

### **Communicate**

- Communicate ideas
- Construct explanations
- Critique claims
- Justify opinions