

# INTERNATIONAL GCSE SCIENCE SINGLE AWARD)

## CORE PRACTICALS

### **Biology**

2.9	investigate food samples for the presence of glucose, starch, protein and fat
2.12	investigate how enzyme activity can be affected by changes in temperature
2.23	investigate photosynthesis, showing the evolution of oxygen from a water plant, the production of starch and the requirements of light, carbon dioxide and chlorophyll
4.2	investigate the population size of an organism in two different areas using quadrats
5.6	investigate the role of anaerobic respiration by yeast in different conditions

### **Chemistry**

1.13	investigate paper chromatography using inks/food colourings
2.14	determine the approximate percentage by volume of oxygen in air using a metal or a non-metal
3.8	investigate temperature changes accompanying some of the following types of change: salts dissolving in water; neutralisation reactions; displacement reactions; combustion reactions.
3.15	investigate the effect of changing the surface area of marble chips and of changing the concentration of hydrochloric acid on the rate of reaction between marble chips and dilute hydrochloric acid

### **Physics**

1.5	investigate the motion of everyday objects such as toy cars or tennis balls
3.17	investigate the refraction of light, using rectangular blocks, semi-circular blocks and triangular prisms
6.6	investigate the magnetic field pattern for a permanent bar magnet and between two bar magnets
7.6	investigate the penetration powers of different types of radiation using either radioactive sources or simulations