

List of Compulsory and Suggested Practical Activities

Compulsory practicals

Topic	Spec. ref	Practical Activities
2. Biological molecules	2.4	<ul style="list-style-type: none"> Investigate the qualitative and quantitative content of vitamin C in food Investigate the energy content of food Investigate the effect of temperature and pH on enzyme activity Investigate the action of immobilised enzymes including the preparation of alginate beads
5. Coordination	5.7	<ul style="list-style-type: none"> Investigate the number and position of sensory receptors, such as touch and temperature receptors in the skin Investigate the range of frequency audible to the human ear
7. Respiration	7.2	<ul style="list-style-type: none"> Investigate the difference between inspired and expired air for carbon dioxide concentration
8. Gas exchange	8.5	<ul style="list-style-type: none"> Investigate the effect of exercise on the rate of breathing and measure lung capacity Investigate the effect of exercise on the pulse rate
10. Homeostatic mechanisms	10.10	<ul style="list-style-type: none"> Investigate diffusion using a partially-permeable membrane such as Visking tubing

Suggested practicals

Practical	Spec ref.	Topic
Investigate cells from different tissues using light microscopy and observe electron micrographs of cells as listed in 1.1		
Investigate the stages of mitosis using microscopy		
Investigate the nutrient content of food limited to starch, protein, glucose and lipids		
Investigate diffusion and osmosis using living and non-living systems		
Investigate the speed of a nerve impulse		
Investigate the effect of light intensity on the eye		
Investigate the effect of antibiotics on bacteria		