

List of BL365 Experiments (Remote Lab)

No	Name	Description	Topic
1	Interference & Diffraction	Enable students to explore interference patterns in waves through controlling parameters	Wave Motion
2	EM induction	Allow students to study electromagnetic induction by adjusting parameters	Electricity and Magnetism
3	Titration	Facilitate remote titration experiments through adjusting parameters for accurate results	Acids and Bases
4	Emission Spectra	Enable students to explore emission spectra of different gases	Heat and Gases
5	Apparent Depth	Measure the real and apparent depths, and allows students to find out the refractive index of different materials	Wave Motion
6	Environmental Monitoring	Assess environmental quality by monitoring air and temperature allowing students to learn about the concept of IoT	Planet Earth
7	Redox reaction	Understand a redox reaction via a reaction with color change	Redox Reactions
8	Iodine Test	Use the iodine test to identify polysaccharides and monosaccharides	Nutrition in Humans
9	Determination of Vitamin C Concentration	Determine the concentration of Vitamin C in an unknown food sample	Nutrition in Humans
10	Complex Formation	Observe the color change upon a complex obtained in a reaction	Transition Metals
11	Respiration	Investigate the respiration rate of plants under different illumination conditions	Nutrition and Gas Exchange in Plants
12	Photosynthesis	Investigate how light intensities affect the photosynthesis rate of plant	Nutrition and Gas Exchange in Plants
13	Investigation of Centripetal Force	Assess centripetal force as a parameter representing the net force on an object in a circular motion	Force and Motion
14	Investigation of Pendulum	Evaluate a pendulum's motion as a parameter of periodic oscillation influenced by gravity and length	Force and Motion
15	Photoelectric effect	Study the effects of photocurrent under light of different frequency and intensity	Atomic World