

Junior Cycle Science - Year 1

Learning Outcome	WK	Link to Nature of Science
Normal Classes Start Thursday August 31st		
PW #1 Students should be able to select and use appropriate measuring instruments		
PW #2 Students should be able to identify and measure/calculate length, mass, time, temperature,		
Bw#1. Students should be able to investigate the structures of animal and plant cells and relate them to their functions		
E&S #1. Students should be able to describe the relationships between various celestial objects including moons, asteroids, comets, planets, stars, solar systems, galaxies and space		
E&S#22. Students should be able to explore a scientific model to illustrate the origin of the universe		
Midterm Break Mon 30th to Friday 3th		
CW #1 Students should be able to investigate whether mass is unchanged when chemical and physical changes take place		
CW#2. Students should be able to develop and use models to describe the atomic nature of matter; demonstrate how they provide a simple way to account for the conservation of mass, changes of state, physical change, chemical change, mixtures, and their separation		
Christmas Break Friday 22nd to Friday 5th		
BW#4 Students should be able to describe the structure, function, and interactions of the organs of the human digestive, circulatory and respiratory systems		
BW#6 Students should be able to evaluate how human health is affected by: inherited factors and environmental factors including nutrition; lifestyle choices ; examine the role of micro-organisms in human health		
CW#3 Students should be able to describe and model the structure of the atom in terms of the nucleus, protons, neutrons and electrons; comparing mass and charge of protons, neutrons and electrons		
Mock Exams (approx. 1st Feb)		
Midterm Break 12th Feb to 16th Feb		
E&S #3 Students should be able to interpret data to compare the Earth with other planets and moons in the solar system, with respect to properties including mass, gravity, size, and composition		
PW# 2. Students should be able to identify and measure/calculate length, mass, time, temperature, area, volume, density, speed, acceleration , force, potential difference, current, resistance, electrical power		
Easter 26th March – 9th April		
CW # 4. Students should be able to classify substances as elements, compounds, mixtures, metals, non-metals, solids, liquids, gases and solutions		
CW# 6. Students should be able to investigate the properties of different materials including solubilities, conductivity, melting points and boiling points		
PW6. Students should be able to explain energy conservation and analyse processes in terms of energy changes and dissipation		
PW7. Students should be able to design, build, and test a device that transforms energy from one form to another in order to perform a function; describe the energy changes and ways of improving efficiency		
Summer Exams 30th May 2017		