

Curriculum Statement for Entry Level Science.

Subject Overview: This hands on practical science course is aimed at those student who may need extra confidence in Science before taking GCSE. The Entry Level Course consists of 39 units 13 for each of Biology Chemistry and Physics.

Each topic takes one week and involves a small test at the end and a series of can do tasks and practical investigations. By completing these the student gain points which lead to Bronze, Silver or Gold award certificates.

Key topics:		Scientific skills:
Biology Items	Title	
B.1	Dead or Alive	Given information I can match an animal to where it lives or when it lived.
B.2	Babies	I can add results to a bar chart.
B.3	Extinction	I can carry out a simple survey of a habitat.
B.4	Casualty	I can carry out a test to show the presence of carbon dioxide.
B.5	Healthy Eating	I can collect (scientific) information about an endangered or extinct species.
B.6	Control Systems	I can do a test to compare the quantity of Vitamin C in fruit juices.
B.7	Gasping for Breath	I can extract a sample of copper from its ore.
B.8	Creepy Crawlies	I can find the location of ten earthquakes or volcanoes and put them on a map.
B.9	Fooling your Senses	I can identify some common metals: iron (using a magnet), copper, aluminium and lead (by sight and touch).
B.10	Food Factory	I can make a chromatogram.
B.11	Drugs in Society	I can make a leaflet to warn old people of the dangers of hypothermia.
B.12	My Genes	I can make a paint sample and prove that it works.
B.13	Body Wars	I can make a poster to warn about the dangers of CO poisoning.
Chemistry Items	Title	
C.1	Acids and Alkalis	I can make and then test a sample of concrete for its strength.
C.2	Cooking and Cleaning	I can make measurements to test a property of a fibre or fabric.
C.3	Colours and Smells	I can measure a person's breathing rate or pulse.
C.4	Heavy Metal?	I can measure length / distance accurately.
C.5	Fibres and Fabrics	I can measure reaction time.
C.6	Clean Air?	I can measure the effect of caffeine on heart rate.
		I can measure the speed
		I can measure time accurately (e.g. to time a chemical reaction).

C.7	Strong Stuff	<p>I can produce a poster on the safe use of mobile phones.</p> <p>I can read a domestic electricity meter.</p> <p>I can read data from a graph.</p> <p>I can record my daily protein intake.</p> <p>I can safely carry out a food test for glucose.</p> <p>I can safely carry out a food test for starch.</p> <p>I can separate a simple mixture (e.g. iron filings/aluminium, salt/sand).</p> <p>I can take a set of fingerprints.</p> <p>I can use a measuring cylinder to measure volume.</p> <p>I can use a newtonmeter to measure force.</p> <p>I can use a plotting compass to map a magnetic field.</p> <p>I can use a thermometer to measure temperature accurately.</p> <p>I can use Universal Indicator solution to find pH.</p> <p>I can write a message in mirror writing.</p>																												
C.8	Restless Earth																													
C.9	How Fast? How Slow?																													
C.10	Sorting Out																													
C.11	CSI Plus																													
C.12	Fuels																													
C.13	What's Added to Our Food?																													
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