

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.
		I can make and then test a sample of concrete for its strength.
Chemistry Items	Title	
C.1	Acids and Alkalis	I can make measurements to test a property of a fibre or fabric.
C.2	Cooking and Cleaning	I can measure a person's breathing rate or pulse.
C.3	Colours and Smells	I can measure length / distance accurately.
C.4	Heavy Metal?	I can measure reaction time.
C.5	Fibres and Fabrics	I can measure the effect of caffeine on heart rate.
C.6	Clean Air?	I can measure the speed
		I can measure time accurately (e.g. to time a chemical reaction).

C.7	Strong Stuff	I can produce a poster on the safe use of mobile phones.
C.8	Restless Earth	I can read a domestic electricity meter.
C.9	How Fast? How Slow?	I can read data from a graph.
C.10	Sorting Out	I can record my daily protein intake.
C.11	CSI Plus	I can safely carry out a food test for glucose.
C.12	Fuels	I can safely carry out a food test for starch.
C.13	What's Added to Our Food?	I can separate a simple mixture (e.g. iron filings/aluminium, salt/sand).
		I can take a set of fingerprints.
		I can use a measuring cylinder to measure volume.
		I can use a newtonmeter to measure force.
		I can use a plotting compass to map a magnetic field.
		I can use a thermometer to measure temperature accurately.
		I can use Universal Indicator solution to find pH.
		I can write a message in mirror writing.
Physics Items Title		
P.1	Getting the Message	
P.2	Our Electricity Supply	
P.3	Attractive Forces	
P.4	Pushes and Pulls	
P.5	Let There be Light!	
P.6	Final Frontier	
P.7	Alternative Energy	
P.8	Deep Impacts	
P.9	Driving Along	
P.10	Hot Stuff!	
P.11	Nuclear Power	
P.12	Full Spectrum	
P.13	Medical Rays	

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