



Year 10 Science

Learning Programme 4			Reading texts that pupils will study during the learning programme
LoricforLP4 is Initiative			
The value we are learning about is Justice and Integrity : Justice-Fair behaviour or treatment			wk. 1: Drug trials Wk. 3: The green house effect Wk. 5: water treatment
Integrity-Being honest and having strong moral principles			
What will I be learning about in this Learning Programme?			
This LP is a major part of Synergy GCSE, so following this LP closely is imperative. Life style and Heal and Synergy GCSE are the support of the style and Synergy GCSE are the support of the support	th and preventing, treating a	and curing disease forms a	
large part of the interactions with the environment topic which leads in learning about Earth's atmos	sphere, ecosystems and biod	liversity.	
Where have I seen this leaming before? This LP develops knowledge of how the environment can influence our health and human impact is	affecting the Earth This hui	lds on knowledge gained in	
KS3.	anooning and Later in the Bar	tao on laro intoago gamba m	
What could I use it for?			
Those wishing to go on and study science beyond GCSE will greatly benefit from this LP, careers wo	rking in healthcare, Earth sci	ences, sustainability and	
ecology are just some of the roles which use this learning. In LP4.1, I will know: 11/03/24 - (WK 1)	PR Focus	KeyVocabulary	Homework
how medicinal drugs are developed and tested;		double-blind trial,	
some of the risk and benefits of genetic technologies;		placebo, genetic	Chackpoint quiz 2.4
the function, medical uses and research in stem cells.		technology, stem cell,	Checkpointquiz 3.4
		clinical trial	
In LP4.2, I will know: 18/03/24 - (WK 2)	PR Focus	KeyVocabulary	Homework
some of the benefits, risks, social and ethical issues around the use of stemcells;	11110000	embryonic, ethical,	
how to evaluate theories in the Earth's early atmosphere;		atmosphere,	
the main changes in Earth's atmosphere over time, with possible causes.		photosynthesis,	Checkpoint quiz 3.5
		composition	
In LP4.3, I will know: 08/04/24 - (WK1)	PR Focus	KeyVocabulary	Homework
· · ·	THIOCUS	decay, decomposers,	Tiomework
the role of microorganisms in the cycling of materials;		respiration,	
the processes that remove carbon dioxide from the atmosphere and return it again;		photosynthesis, carbon	Homework 3.1
how the greenhouse effect works.		cycle, combustion	
Extended Task			
In LP4.4, I will know: 15/04/24 - (WK 2)	PR Fo cus	KeyVocabulary	Homework
how to evaluate evidence for human influences on climate change;		mitigate, carbon	
the effects of increases in greenhouse gases in the atmosphere;		footprint, biofuel,	Homework 3.2
problems that can be caused by atmospheric pollutants.		sulphurdioxide, acid	
		rain, particulates,	
In LP4.5, I will know: 22/04/24 - (WK1)	PR Focus	KeyVocabulary	Homework
theimportance of the water cycle to living organisms;		distillation, potable	
method to produce potable water;		water, desalination,	Homework 3.5
how wastewater is made safe to release into the environment.		sewage	
	20.5		
In LP4.6, I will know: 29/04/24 - (WK 2) the relationship between communities and ecosystems;	PR Focus	KeyVocabulary	Homework
how the biotic and abiotic factors that affect populations in an ecosystem;		communities, habitat,	
how to measure population size using sampling techniques.		interdependence, biomass, consumer,	Checkpoint quiz 3.5
		producer, predator, prey	
Extended Task		,	
In LP4.7, I will know: 06/05/24 - (WK 1)	PRFocus	KeyVocabulary	Homework
what is bio diversity and the human impact on bio diversity;		biodiversity,	
the impact of deforestation and peat bog destruction;		deforestation, peat bog,	
some of the ways people can reduce the human impact on ecosystems.		industrial waste,	Checkpointquiz 3.6
		fertiliser.	
In LP4.8, I will know: 13/05/24 - (WK 2)	PR Fo cus	KeyVocabulary	Homework
kerboodle;			



bitesize; GCSE Pod.

Resources to support learning:

Kerboodle, science text books, BBC bitesize, YouTube. FFET Award Challenge for this Learning Programme:

Attend an extra-curricular club, represent the academy at an event, attend an enrichment day, receive a subject praise postcard, attend a day trip, attend a head of year breakfast or afternoon tea, achieve 100 positive points on class charts, receive a letter of commendation from SLT, be invited to a wonderful Wednesday, receive a principals letter or be invited to a principals lunch, attend a residential trip, achieve the Duke of Edinburgh bronze award.