

Subject	Ve	ar	Term	
Biology	13		1	
Topic				
Enorgy & Ecosystoms	10	pic		
Energy & Ecosystems Content (Intent)				
Prior Learning (Topic) Year 1	3 – Photosynthe	sis Respiratio	n	
<ul> <li>Plants synthesize organic comp</li> <li>Most sugars used as respirator</li> <li>Biomass</li> <li>GPP + NPP, including calculatic</li> <li>Nutrient cycles – nitrogen and</li> <li>Use of natural and artificial fer</li> <li>Environmental issues arising fr</li> </ul>	y substrates, rest t ons phosphorous tilisers	o make other biol	ogical molecules	
Future Learning (Topic) Furth How will knowledge and skill (Implementation)	-		understanding be assessed &	
Demos			omeworks (Grade given. Written &	
Calorimetry (optional) <b>Practical work</b> Calorimetry (optional) <b>Written</b>		verbal feedback. Response expected.) -1 x end of topic test (Grade given. Verbal feedback to class and individuals.)		
Class notes Past paper questions in class Past paper questions in homeworks				
How can parents help at home?				
Look at the topic specific reso Use appropriate youtube cha Encourage students to use th Take an interest! Ask your ch	ources on the VL nnels: cognito, f e textbook issue	reesciencelesso ed.		
learning.	•			
Helpful further reading/discu			Concerne Lineline	
<b>Reading</b> New Scientist Biological Science Review Magazine	Vocabulary Lists Photosynthesis, respiration, gross primary productivity, net primary productivity, energy, nitrates, nitrites,		Careers Links Ecologist Environmental Scientist Biological Scientist Conservation	

The Biologist Magazine – Royal Society of Biology Royal Society of Biology blog	ammonia, phosphates, fertilisers	Land management Agriculture & farming