

Year 10

Topics	Ecology	Waves
Prior knowledge / skills	<ul style="list-style-type: none"> ● Food webs ● Food chains ● Biodiversity ● Habitat 	<ul style="list-style-type: none"> ● Examples of waves ● Diagram of a wave
Key concepts / knowledge / skills covered this half term	<ul style="list-style-type: none"> ● Adaptations, interdependence & competition ● Organisation of an ecosystem ● How materials are cycled ● Biodiversity & the effect of human interaction on ecosystems ● Waste management – land use ● Deforestation ● Global warming – maintaining biodiversity 	<ul style="list-style-type: none"> ● Calculating using speed equation ● Drawing and labelling ● Measuring angle size of a reflected ray, drawing angle of incidence & angle of refraction in a glass block
Assessment	<p>The assessment will assess the following topics. Students need to revise at least 2 weeks in advance.</p> <ul style="list-style-type: none"> ● Infection & response ● Bonding & structure ● Rate & extent of chemical change ● Quantitative chemistry ● Electricity ● Bioenergetics ● Plant organisation 	
Personal Development opportunities	<p>Humans are omnivores which means we can eat both plants and other animals Group discussion – is deforestation destroying our ecosystems?</p>	
Homework requirements	Homework will be set on Google Classroom every week and will take 30 minutes to complete	
	Homework task	Description / links
	1. Mygcscience	Use Mygcscience to create an A4 sheet of notes for each of the following: <ul style="list-style-type: none"> ● Abiotic factors ● Biotic factors ● How to measure each of the factors

2. Retrieval Clock	Students to complete retrieval clock on Rate & Extent of Chemical Change topic. Break down into any 12 subcategories to fill in the clock. To be uploaded to Google Classroom – please make a copy of this doc (Retrieval Clock.pptx)
3. 6-marker	Students to complete 6-mark question – to be uploaded to Google Classroom
4. Brain Dump	Students complete brain dump activity on cell biology. To be uploaded to Google Classroom – please make a copy of this doc (Brain Dump Retrieval.pptx)
5. Retrieval	<p>Create a 15 mixed multiple choice quiz on the following (remember to include answers):</p> <ul style="list-style-type: none"> ● 5 questions on the ripple tank practical ● 5 questions on the uses of EM waves ● 5 questions on the leslie cube investigation
6. Revision techniques	Flash cards, mind maps, knowledge organisers Create a mini test for someone in the class on 'Electricity'