

MAGHULL HIGH SCHOOL – CURRICULUM MAP



Water and carbon cycle

TOPIC Water and carbon cycle	Week 1 Natural systems	Week 2 The water cycle	Week 3 Drainage basins	Week 4 Variations in run-off	Week 5 The carbon cycle	Week 6 Water, carbon and climate
	Objective: To investigate natural systems, feedbacks and sub-systems	Objective: To investigate stores, transfers, temporal and spatial patterns over time	Objective: To investigate inputs, stores, flows and outputs and the concept of water balance	Objective: To investigate the human and physical factors that influence run-off and the characteristics of flood hydrographs	Objective: To investigate the stores and how carbon is transferred between stores and change over time and spatial scales	Objective: To investigate how water and carbon stores are essential to life, feedback within the two cycles and the interactions between them To investigate climate change and the human influence on carbon cycles
Assessment / Feedback Opportunities	Q and A 2020 Q1.2	Q and A 2018 Q1.1 2019 Q1.1 2021 Q1.4 (20 marks)	Q and A 2019 Q1.3	Q and A 2019 Q1.3 2021 Q1.4 (20 marks)	Q and A 2020 Q1.1	Q and A 2018 Q1.2 2018 Q1.3 2020 Q1.4 (20 marks) 2022 Q1.4 (20 marks)
TOPIC Water and carbon cycle	Week 7 Case study – the Amazon rainforest	Week 8 Case study – River Eden basin				
	Objective: To investigate the carbon and water cycle within the Amazon rainforest	Objective: To investigate a flooding event and the characteristics of the River Eden valley				
Assessment / Feedback Opportunities	Q and A 2018 Q1.4 (20 marks)	Q and A 2021 Q1.4 (20 marks)				

Knowledge & Skills development	<ul style="list-style-type: none"> • Research skills, secondary data collection, primary data collection, • census internet data retrieval/analysis • Exam technique extended writing responses • Choropleth map • OS Mapskills
Cultural Capital	<ul style="list-style-type: none"> • Global citizenship, tolerance, understanding
SMSC / Promoting British Values (Democracy, Liberty, Rule of Law, Tolerance & Respect)	<ul style="list-style-type: none"> • Global citizenship, tolerance , understanding • Environmental conservation, Cultural respect • Ethical business/development
Reading opportunities	<ul style="list-style-type: none"> • MHS Geography Twitter page • News articles • Research materials, newspapers, brochures • Geofiles
Key Vocabulary	All students provided with a glossary
Digital Literacy	<ul style="list-style-type: none"> • MHS Geography Twitter page • datashine.co.uk, • census data • digimaps, google earth • News articles • Website information retrieval
Careers	Careers based on scientific roles ensuring water quality and ecosystem and habitat conservation, environmental planning meteorology, flood management, engineering, green alternative energies