

UNIT TITLE: 9.2 Why is York prone to flooding?



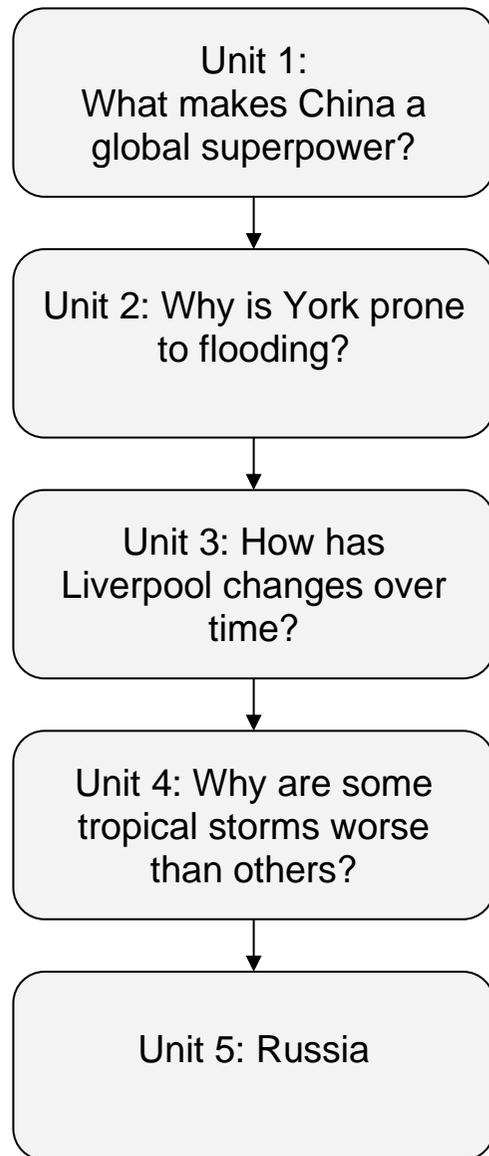
ALL SAINTS
Sixth Form College



THE ACADEMY OF
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<p>Possible Lesson Breakdown:</p> <ol style="list-style-type: none"> 1) How does water river a river? 2) Factors causing flooding 3) Explaining the causes of flooding 4) Flood hydrographs 5) Diagnostic and therapies 6) Ways of managing river flooding 7) Reasons why York is prone to flooding 8) Why is York prone to flooding? 9) Impacts of flooding in York 10)How can flooding in York be managed? 11) Revision Lesson 12)End of unit test 	<p>Unit Knowledge: (key terms in bold)</p> <ul style="list-style-type: none"> • Features of a drainage basin: source, mouth, confluence, tributary, watershed). • The hydrological cycle • Definition of river flooding • Factors influencing river flooding (steep slopes, heavy rainfall, impermeable surfaces, snow-melt, saturated soil, porous rock) • Understanding flood hydrographs: lag time, peak rainfall, peak discharge, rising limb, falling limb. • Flood management strategies: definition of hard and soft management, how strategies work (dams, flood walls, flood warnings, floodplain zoning). • Reasons why York is prone to flooding • Impacts of flooding in York. 	<p>Assessment:</p> <p>Lesson 5 – Diagnostic and therapies Lesson 12 – End of unit exam</p>
<p>Tier 2 Vocabulary</p> <ul style="list-style-type: none"> • Drainage • Permeable • Management • Prone 		<p>Literacy Tasks – Personalised feedback given on each</p> <p>Lesson 3 – Explaining the causes of flooding Lesson 8 – Why is York prone to flooding?</p>
		<p>Skills Coverage</p> <ul style="list-style-type: none"> • Using hydrographs • Interpreting data • OS map skills: identifying physical and human features, contour lines, 4 and 6 figure grid references • Using satellite images • Using aerial photos
		<p>Notes</p>

5 Year Plan Outline



Notes

This unit provides students with the foundation knowledge to understand how hydrology works and how flooding affects places in the UK. This topic is the first where students explore processes of hydrology. Students have practised explaining physical processes in other topics but there is lots of key terms within this unit for the students to learn to understand river flooding properly.

Key Knowledge Themes:

Geomorphic change: The hydrological cycle. Factors affecting discharge.

Changing weather and climate: Distribution of rainfall in the UK. Recap of relief rainfall

Place Knowledge: Major cities and rivers in the UK (York)

A connected world: Management of river flooding

Links to Prior Learning:

Geomorphic change: How different physical processes work
Changing weather and climate: Climatic factors, reasons for rainfall in different parts of the world.

Place Knowledge: location of cities and rivers in the UK

A connected world: Attempts by people to manage physical processes

National Curriculum Links:

Physical geography relating to hydrology

Understand how human and physical processes interact to influence and change landscapes; how human activity relies on effective functioning of natural systems.

Interpret Ordnance Survey maps in the classroom including grid references and scale, topographical and other thematic mapping, and aerial and satellite photographs.