

# Scheme of Learning: KS3 – Year 9

## Topic Sequence:

1	2	3
<b>Rivers and Coasts</b>	<b>Endangered ecosystems</b>	<b>Urban issues and challenges</b>

## Topic Overview:

This unit of work introduces students another strand of physical geography, rivers, coasts and glaciation. Students will develop an understanding of the processes that shape the landscapes around them and how the landforms along rivers and coasts are created. Once this knowledge and understanding is embedded, issues that may impact people along our rivers and coasts will be explored. These include the causes, impacts and management of river flooding as well as the risks associated with coastal erosion and its future management. Links will be made back to the earlier topics of the impacts of climate change and increasing population pressures on areas like river flood plains.

## Lesson Sequence:

Year 9 will start with a physical geography topic. Students will have covered 2 previous physical topics, one in year 7, wild weather, and one in year 8, shaky world. All three physical topics make clear links to human geography by linking them to their impact on people and how people may attempt to manage these impacts.

The first section of this topic will focus on rivers.

Prior to learning about the river system, it's vital that students understand the hydrological cycle and how water moves around the planet; this is the natural starting point for this sequence of lessons. They will then start to identify the different parts of the river and associated features by studying the river basin and its long profile as the river travels from source to mouth. The processes carried out by the river will subsequently be explored so that students understand how and why a river can change and shape the landscape through which it travels. Students will move on to examine how rivers can erode the landscape to create landforms such as waterfalls and how they can also deposit material in features such as meanders.

The lessons will then progress to look at how rivers may start to impact people. The causes of river flooding will be discussed, with a focus on both the physical and human causes of flooding. This can be linked back to previous work on climate change and population pressures. How these flood risks are managed and the possible techniques that can be used will be explored. The advantages and disadvantages of the methods will also be evaluated at this stage.

The second section of this topic will focus on coasts.

Using a similar sequence to that used in the rivers' lessons, students will look at key coastal features and the processes that operate along our coastline to create them. Students will study the formation of one particular erosional landform; caves, arches and stacks to embed the links between processes and the landforms. They will be then be introduced to longshore drift, the movement of material along the coast and the issues this can create for local people. Coastal erosion is a serious issue in many parts of the UK. The final few lessons on coasts will look at how coastal erosion can impact people living along the coast and how different management strategies can be used to try to reduce the impacts. Again, as with rivers, students will be encouraged to evaluate the strengths and weaknesses of the strategies.

The final two lessons of this topic will introduce students to glaciation. Many of the upland areas in Scotland, Wales and northern parts of England owe their characteristics to the impact of the glaciers that once flowed. Students will explore how the power of ice can shape a landscape and will examine some of the distinctive landforms that exist because of those processes.

## Sequence of Lessons:

<b>1</b>	Hydrological cycle
<b>2</b>	River basin
<b>3</b>	River profile
<b>4</b>	River processes
<b>5</b>	Waterfalls
<b>6</b>	Meander
<b>7</b>	Why do rivers flood?
<b>8</b>	River flood
<b>9</b>	River management
<b>10</b>	Mini assessment
<b>11</b>	Coastal processes
<b>12</b>	Old Harry's Rock
<b>13</b>	Longshore drift
<b>14</b>	Coastal management
<b>15</b>	Glaciation
<b>16</b>	Glaciation
<b>17</b>	Revision
<b>18</b>	Assessment

## Topic Resources:

<b>Knowledge Map:</b>	Rivers and coasts	<b>Any other Resources:</b>	
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## Assessment:

<b>Knowledge:</b>	15 question knowledge test
<b>Application of Knowledge:</b>	34 marks related to application of knowledge

## Supportive Reading:

<b>Any supported reading listed here</b>	