Scheme of Learning: KS3 – Year 7

Topic Sequence:

1	2	3
Geography of me	Wild weather & climate change	Energy & resources

Topic Overview:

Having being given an introduction into Geography at Toynbee, this topic moves on to introduce students to global climate issues. This topic covers a wide range of concepts including climate change, global warming and the greenhouse effect as well as the formations of extreme weather events such as tornados and tropical storms. Many of these lessons will look at specific case studies which will then allow students to use their locational knowledge from unit 1 and practice using their locational terminology. After learning about concepts such as global warming and fossil fuels, students will later use this knowledge in unit 3 in year 7 which focusses on energy. Aspects such as climate change are touched on across several topics throughout the geography curriculum but particularly in Year 10 when students study weather hazards and climate change.

Lesson Sequence:

The first lesson for this unit focusses on what weather and climate are and how they differ. Within this lesson, they are also introduced to low and high pressure which are then referred in future lessons focussed on weather hazards. Students next move onto two lessons on climate graphs (lesson 2 and 3). Climate graphs appear in many different topics throughout the curriculum so time is spent ensuring students know how to interpret climate graphs and how to draw them. Following on from this, is exploring factors that influence weather conditions (lesson 4): altitude, latitude, prevailing wind direction and distance from the sea. Thinking about how all of these factors can affect weather in different ways, in combination with high and low pressure, enables students to develop a deeper understanding as to what can cause different weather conditions. Finally in this section comes a lesson on rainfall (lesson 5). This lesson introduces students to the three different causes of rainfall; convectional, relief and frontal which further develops and understanding of what can cause different weather conditions, this time with a focus on rainfall.

Having covered basic concepts related to weather, students next move on to looking at weather hazards. This starts with lesson 6 which studies the 2019 Chicago Blizzards. Students learn about the causes of the extreme weather as well the impacts they had on the area. Next comes a lesson looking at tornadoes (lesson 7). Once again, students look at the causes and impacts and this requires them to recall concepts from the initial lessons. The final example of extreme weather events studied are tropical storms. These are covered across two lessons, one lesson on their location and formation (lesson 8) and another on their impacts (lesson 9). Within the impacts lesson, they are introduced to another case study, Hurricane Katrina.

The final section of this unit moves onto focus on climate change and global warming. This starts with lesson 10 which looks the different between climate change and global warming followed by the human and natural causes of climate change. This lesson is followed by the climate change game in lesson 11. The lesson sees students split up into different countries and they experience how climate change has affected countries differently. This then follows nicely into lesson 12 which looks at Tuvalu and how they are at risk from rising sea levels. Having looked at how one country is under threat, students also look at the threat to the Maldives (lesson 13). Students then move onto look at the connections between tropical storms and global warming (lesson 14), recapping and drawing connections between earlier lessons. As part of this, they look at Hurricane Sandy and why New York was an unlikely location to be victim to a hurricane. Finally comes a lesson looking at how we can adapt to climate change but also mitigate against it. Students look at a range of methods and are encouraged to apply these methods to what they know about places such as Tuvalu and the Maldives.

Sequence of Lessons:

1	Introduction
2	Climate graphs
3	Climate graphs
4	Factors that influence weather
5	Rainfall
6	Blizzards
7	Tornadoes
8	Tropical storm location
9	Tropical storm impacts
10	Climate change - causes
11	Climate change – game
12	Tuvalu
13	Maldives
14	Global warming and tropical storms
15	Mitigation or Adaptation
16	Revision
17	Assessment
18	

Topic Resources:

Knowledge Map:	Wild weather and climate change	**Any other Resources:**	

Assessment:

Knowledge:	20 question knowledge test
Application of Knowledge:	32 mark application test.

Supportive Reading:

Any supported reading listed here	Hurricane Katrina Case Study Article