

River Bank Primary Knowledge Organiser	Year Five	Spring 2	Geography – Climate and Pollution
Key Vocabulary		Important Facts	
<ul style="list-style-type: none"> <li>- <b>Biome</b> - areas of our planet with similar <b>climates</b>, landscapes, animals and plants.</li> <li>- <b>Climate</b> – the average of rainfall, temperature, humidity and wind-speed of an area</li> <li>- <b>Garbage Patches</b> – huge areas of plastic on the ocean</li> <li>- <b>Corporate</b> – relating to large companies / businesses</li> <li>- <b>Marine</b> – animals and plants in the ocean / sea biome</li> <li>- <b>Atmosphere</b> – a layer of gases 500km above the earth</li> <li>- <b>Global Warming</b> – referring to the process where the temperature of the Earth's temperature is increasing due (mainly) to carbon dioxide trapping the Earth's heat in, like a blanket.</li> <li>- <b>Carbon Dioxide</b> – a gas which is produced by the burning of fossil fuels such as oil, gas and coal; car exhausts / transport and animals and humans</li> <li>- <b>Fossil Fuel</b> - a finite resource made naturally over millions of years from the remains of living things. It includes, gas, oil and coal.</li> <li>- <b>Finite</b> – a limited amount</li> <li>- <b>Degradation</b> – the wearing down / breaking down / ruining</li> </ul>		<ul style="list-style-type: none"> <li>- Know that <b>biomes</b> are areas of our planet with similar <b>climates</b>, landscapes, animals and plants.</li> <li>- Know that examples of <b>biomes</b> are: <ul style="list-style-type: none"> <li>o Tropical rainforests</li> <li>o The oceans / seas</li> <li>o Savannah</li> <li>o Woodlands</li> </ul> </li> <li>- Know that what lives in each <b>biome</b> depends on: <ul style="list-style-type: none"> <li>o how warm or cold it is (temperature)</li> <li>o how dry or wet it is (rainfall)</li> <li>o how fertile the soil is</li> </ul> </li> <li>- Know that <b>biomes</b> are valuable to humans and that they are also worth protecting in their own right (i.e. regardless of their use to humans)</li> <li>- Know that our oceans are under threat from pollution - in particular plastics</li> <li>- Know that while some plastic ends up in the ocean due to: <ul style="list-style-type: none"> <li>o intentional dumping (for financial reasons)</li> <li>o large amounts are blown into the sea from the land</li> </ul> </li> <li>- Know that the plastic in the oceans can be deadly to <b>marine</b> life and that once it has entered the food chain it can cause health problems for humans</li> <li>- Know that there are massive '<b>garbage patches</b>' in the Atlantic, Pacific and Indian oceans and that all of the world's oceans are affected by plastic pollution</li> <li>- Know that a <b>sketch-map</b> is a roughly drawn map with basic details</li> </ul>	

- Know that a **sketch-map** will include:
  - A key
  - Title
  - Roads / Parks / Schools / Shops / rubbish / recycling bins / location of plastic pollution
  - Compass Directions
  - Draw to a rough scale
- Know that a lot of plastic can be recycled, but that creating less plastic waste in the first place is an even better solution than recycling
- Know that there has been a greater focus on reducing plastic waste over the last 5 years, mainly due to The Blue Planet Documentary
- Know that reducing plastic consumption has come in the form of:  
Governmental / Corporate
  - Charging people for plastic bags at supermarkets
  - Companies reducing the amount of plastic straws it uses (McDonalds / Cinema chains)
  - Banning '**single-use**' plastics such as straws, cotton buds and drink stirrers
  - Supermarkets having 'plastic-free' isles
  - Evian insisting that its plastic bottles are ONLY made from recycled plastic.  
Personal
  - Using reusable gas at supermarkets
  - Making sure plastic waste is put in a recycling bin
  - Use refill services for coffee / drinks etc
  - Use reusable items (batteries / cloths instead of wipes)
  - Buy loose fruit and veg and not those wrapped in plastic
- Know that Earth is surrounded by a layer of gases called the **atmosphere** that is roughly 500 km high above Earth but most of it is within 15 km of the Earth's surface

- Know that the most common gas in the **atmosphere** is nitrogen, but that other important gases in our atmosphere include oxygen and carbon dioxide
- Know that our atmosphere acts like a blanket that traps the Sun's heat and causes the temperature of the Earth to increase – this is called **Global Warming**.
- Know that people on Earth are making **carbon dioxide**, mainly through:
  - o transport
  - o manufacturing and agriculture
  - o Burning of oil, coal and gas
- Know that the population of the world is currently increasing; know that the global population is currently close to 8 billion and is projected to peak at 11 billion in around the year 2100.
- Know that oil is an example of a **fossil fuel**, meaning that it is a **finite** resource made naturally over millions of years from the remains of living things
- Know that **global warming** is leading to more extreme weather events including floods and droughts; this is making certain parts of the world much harder to live in leading to increased movement of people, called migration; know that the availability and contamination of water is a major reason for this migration
- Know that **global warming** is also leading to **degradation** of many habitats, and that the loss of polar ice which threatens polar bears is an example of this

## Image Bank



*Tropical Rainforest Biome*



*Ocean / Sea Biome*



*Savannah Biome*



*Woodland Biome*

## What Is a Sketch Map?



*Garbage Patch*



*Earth's Atmosphere*



**Coal**



**Gas**



**Oil**

*Fossil Fuels*



