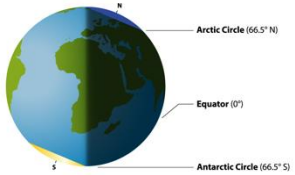
# Year 5 – Summer – Geography – Pupil Knowledge Organiser

| What do I already know? | What am I learning now? |
|---|---|
| • Deforestation:<br>- is the action of clearing a wide area of forests.<br>- leads to loss of biodiversity, displacement of indigenous communities, and disruption of the water cycle.<br>- contributes to climate change; fewer trees means less carbon dioxide absorption. | 1. What are the Arctic and Antarctic circles?<br>2. What is climate change and why is it happening?<br>3. What is the global impact of climate change?<br>4. How do our actions affect climate change?<br>5. What actions can we take to reduce our carbon impact?<br>6. What actions can we take to reduce our carbon impact? *Continued* |

## Key Knowledge: Location

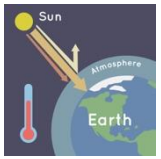



The Arctic and Antarctic circles mark the boundaries of regions with extreme polar conditions.

They contain tundra biomes with unique ecosystems adapted to the cold.

They experience similar phenomena like the midnight sun and polar night.

## Key Knowledge: Place




The Earth's atmosphere acts like a blanket, keeping the planet warm enough to support life.

Human activities, like burning fossil fuels and deforestation release greenhouse gases into the atmosphere.

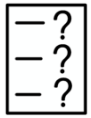
Cars, trucks, planes, and ships emit carbon dioxide and other greenhouse gases.

The global impact of climate change includes:

- extreme weather conditions,
- rising sea levels,
- loss of biodiversity,
- and an impact on agriculture.

Reducing your carbon footprint can improve the impact on climate change.

## Geographical Skills



**Enquiry & Investigation:** Asking geographical questions about a place and trying to answer them.

**Interpret a Range of Sources:** Using different sources of information to answer questions.

**Communicate Geographical Information:** Sharing the answers to our questions in the best way possible.

## Key Vocabulary

| | |
|---|---|
| climate zone | Areas on Earth with their own typical weather patterns. |
| tundra | A treeless biome with very cold temperatures. |
| Arctic Circle | An imaginary line (66.5$^{O}$ North) around the North Pole. |
| Antarctic Circle | An imaginary line (66.5$^{O}$ South) around the South Pole. |
| polar region | Areas around the poles with extremely cold temperatures, ice caps, and minimal vegetation. |
| Global Warming | The gradual increase in the Earth's average temperature. |
| Greenhouse Effect | The process where certain gases trap heat in the Earth's atmosphere. |
| fossil fuels | Natural fuels formed from the remains of ancient plants and animals. |
| climate change | Long-term shifts in temperatures and weather patterns. |
| carbon footprint | The total amount of greenhouse gases that are generated by our actions. |
| global impact | The far-reaching consequences that an event, action, or development has on the world. |