

# Welcome to your Discovery Box

Here you will find an array of exciting activities and fun facts to prepare you for your next Unit of Study.

*Within this box you will find:*

- knowledge organiser
- fun facts and information
- craft activities
- puzzles and games
- significant people and places stickers
- useful websites for further exploration
- suggestions for visits and days out
- a recommendation of books to look for in the library

We hope you find these activities engaging and entertaining but most of all that they make you **curious** to learn more.

## How is climate change affecting birds and what can we do to help?

Climate change does a lot more than just heat up our planet. Climate change can also cause more intense weather. That could mean more hurricanes, floods, heat waves, droughts, and even cold spells. This extreme weather can be trouble for birds. Scientists have noticed that when extreme weather happens, fewer birds show up in the places they call home. Why? One idea is that the birds avoid the extreme weather by moving to a friendlier area.

Want to take a close-up look at the birds in your neighbourhood? Follow these simple instructions to make a bird feeder that birds won't be able to resist!

### What you will need:

- An empty toilet paper roll
- Some string
- Peanut butter
- Bird seed



### Instructions

1. Punch two holes on one end of the toilet paper roll using a pencil. Make sure the holes are across from each other so that you can put a string through it.
2. Put a string through both holes. Tie the loose ends of the string together (so that you can hang it later).
3. Spread peanut butter all around the outside of the toilet paper roll.
4. Pour the bird seed onto a plate or other flat surface.
5. Roll the toilet paper roll in the bird seed. Make sure the seeds stick to the outside!
6. Hang your new bird feeder outside near a window so you can see it from inside.
7. Wait for birds to come and feast on your fancy new bird feeder!



## Important facts about the world

**Our Earth is about 4.543 billion years old!**

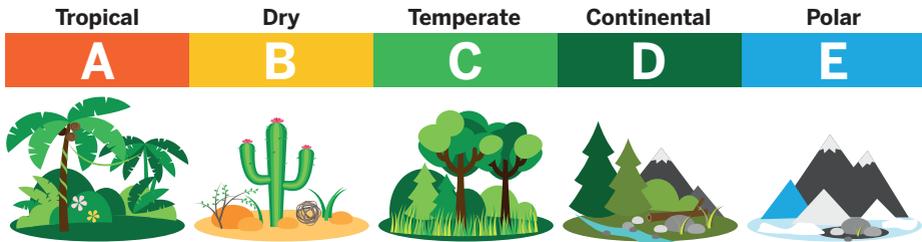
**Here are some facts about this amazing planet:**

70% of the Earth's surface is covered in water!

Earth is the only place life has actually been discovered.

The world is home to over three trillion trees — with almost half of them living in tropical or subtropical forests. There are roughly 400 trees for every human. But we are losing 10 million trees a year to deforestation.

On Earth, there are roughly five climate zones: tropical, dry, temperate, continental and polar.



The average temperature of the Earth before mid-1800 was 14°C.

Global temperatures have significantly risen from the mid-20th century to present day.

Throughout Earth's history, climate has continually changed. When occurring naturally, this is a slow process that has taken place over hundreds and thousands of years. For example, 20,000 years ago, much of the United States was covered in glaciers. In the United States today, it has a warmer climate and fewer glaciers.

Human activities such as deforestation, land use and burning of fossil fuels have released greenhouse gases. The more greenhouse gases there are in the atmosphere the more the heat gets trapped which increases the Earth's temperature.