

Session 1



CONNECTING CLASSROOMS



ZERO WASTE

Tackling climate change

In this session you will:

- see pictures related to climate change and waste management around the world
- reflect on what you already know about this topic and discuss what you would like to find out
- analyse data about carbon emissions and the progress that has been made in various parts of the world
- find out what you will be learning as part of the unit

In this unit, we will be learning about the problem of waste management; how it affects climate change, what it looks like in various countries and how some countries are trying to mitigate it. At the same time, we will practise how to work with others, discuss and take different leadership roles, as well work collaboratively. We will explore this issue from the perspective of people who live in poor countries but also others who live in some of the richest countries.

Step 1

Look at the following images of the impact of poor waste management around the world.



What do you already know about climate change?

How do the pictures represent the problem of climate change.

Write down your ideas in the 'Know' column.

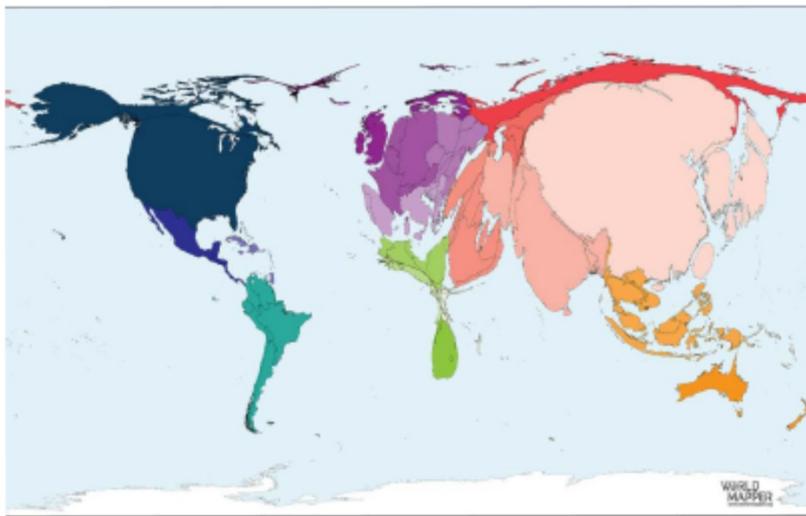
| What do we already Know about this topic? | What do we Wonder about this topic? What questions do we have? | What have we Learned about this topic? |
|--|---|---|
| | | |

What do you want to find out? Write this in the 'Wonder' column.

Step 2



Lets have a look at the WorldMapper image together...



It shows World Carbon Emissions 2015 with country sizes adjusted to reflect CO2 emissions

Lets compare how these countries should look on a regular atlas.

Lets revisit your 'Know' and 'Wonder' chart...

Can you add anything else?

Lets consider the following:

- Why have some regions and some countries made much more progress in tackling carbon emissions than others?
- In some countries the situation appears to have become worse, why is that?
- What carbon emission factors can affect certain countries and not others? Do you have any examples?

Step 3 - What we will be learning.

Lesson 2: Learn about carbon emissions, sustainability and climate change; explore data about carbon emissions and population.

Lesson 3: Explore leadership tools which can be used for identifying multiple causes and solutions and learn about the work of the Eco-bricks project which has managed to significantly reduce local mis-management of waste.

Lesson 4: Work individually to explore case studies on increasing effective waste management, and start to create a case for change within the community.

Lesson 5: Finish a summary of the case study describing the causes of climate change and the solutions that have been highlighted, present the summary to the large group.

Lesson 6: Explore what pupils can do to address poor waste management in their community, learn about Eco-schools, begin working with the seven steps toolkit.

Lesson 7: Collaboratively discuss a variety of ideas around how the problem being addressed could be solved.

Lesson 8: Plan the steps for the project, including resources, budget, people, and responsibilities; prepare for implementation between lessons eight and nine.

Lesson 9: Reflect on the project; what pupils learned about the situation, about collaborating with team-mates and about themselves.

Lesson 10: Share the results of the mini-project.

Some key terms for this unit:

Student leadership - the process by which individuals empower others to make change, sometimes as role models, sometimes as catalysts for personal development in others.

Creative collaboration - working in teams to design a mini-project to support better waste management in the community.

What does leadership mean?

We will look at how individuals or groups of people could become role models or planners to address the issue of waste management on behalf of a larger group of people.

We will look at some of causes of climate change and pollution. We will look at multiple solutions that may be available to help reduce waste.

We will look at waste management in different contexts and in various parts of the world, including poorer and wealthier countries.

What does creative collaboration mean?

It might mean working in teams, coming up with a variety of potential ideas and solutions, and designing a project that tackles waste management in their community.

Next week for ICT we will be using the laptops to research different ways that people reuse and recycle in their community. We will use this information to describe some of the most popular methods and create information posters.