

# Climate Change Dodgeball

A fast-paced game to show how increasing greenhouse gases causes global warming

9 - 12

Energy Sources & Sustainability



This active game can be used to scaffold pupils' scientific understanding of the **greenhouse effect** and **global warming** and prompt discussion on how our actions can make a difference.

## Discussion points:

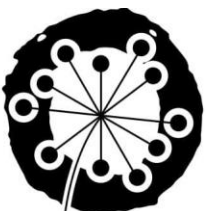
1. What does this game demonstrate? (How increasing levels of greenhouse gases heat up the Earth because it's harder for the planet to reflect the sun's warming rays.)
2. Did it seem like the Earth was suffering at the end? What caused the greenhouse gases to increase?
3. What can we do to prevent/mitigate human-caused climate change? What effects might we see where we live?

## Equipment

- A class set of bean bags
- Bibs of 3 different colours
- A chalked-out circle or pre-existing circular playground marking

## Activity

1. Divide the pupils into 2 groups, with twice as many placed in the centre of the circle as those forming a circle around them.
2. The pupils in the centre are Earth and wear blue bibs. Those on the outside are greenhouse gases and wear green bibs.
3. One individual is the Sun outside the atmosphere who throws "rays" in the form of bean bags at the Earth.
4. The Earth pupils repel the balls by throwing them back out of the circle.
5. The Greenhouse Gases pupils try to catch or block the balls from leaving the circle and throw them back at the Earth.
6. The round ends when all the bean bags are outside the circle. Since most of the children are in the centre it should end quickly.
7. In subsequent rounds, increase the number of greenhouse gases pupils, explaining that there are more in the atmosphere due to human actions. This will make it increasingly difficult for Earth to reflect the Sun's warming rays and therefore the Earth's temperature rises.
8. At the end, you can put one brave pupil in the centre for dramatic effect.



Learning  
through  
Landscapes

For more resources visit [www.ltl.org.uk/free-resources](http://www.ltl.org.uk/free-resources)

© This activity sheet was created by Learning through Landscapes  
Registered charity no. in England and Wales 803270 and in Scotland SCO38890

