



# SCIENCE



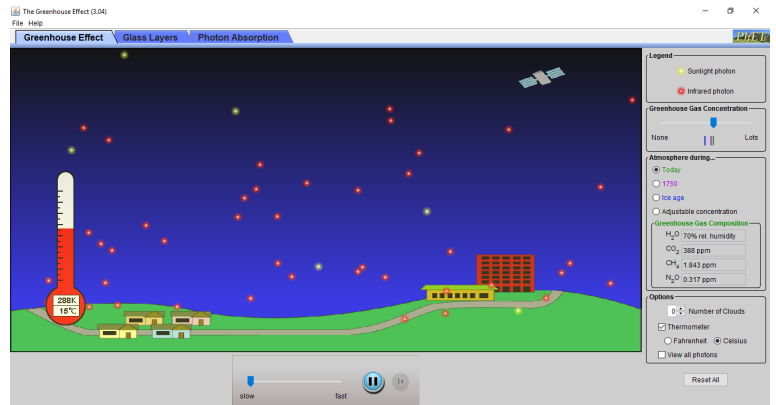
13.9.19

## Sea level rise.

Lots of us are concerned for the environment and want to take action to prevent climate change. Today we looked at the science behind climate change. We began by looking at a simulation of the greenhouse effect.

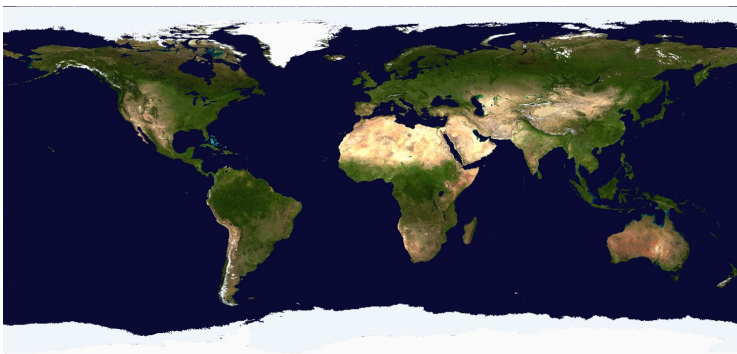
We can use simulations when doing the experiment in real life would be impractical or impossible. See what happens when you change the atmosphere on the simulation:

<https://phet.colorado.edu/en/simulation/legacy/greenhouse>



## Where is the ice?

You can see from this map how much ice there is currently on Earth. In the assembly we saw what happened to our pot of water when we melted some ice cubes into it. The water level began to rise. What if that happened to the Earth?



## What makes it worse?

More greenhouse gases mean more heat from the sun gets trapped in our atmosphere. That causes more ice to melt and sea levels to rise.

## What can be done?

We had a quick look at how we could capture some of the greenhouse gases by planting trees and how we should release less of it into the air. We'll look at this in more detail in another assembly, but before then can you think of any ways you could help? It would be nice to hand over an assembly to you, sharing the action you're taking!



## Web links and videos:

[The video halfway down this page shows a chunk of ice falling into the sea.](#)

[Newsround guide to sea level change](#)

[What would happen if ALL the ice in the world melted? \(Don't worry - we're not close to this yet!\) There's lots of science in this video which you might need to watch with your adult as it talks about lots of different things very quickly!](#)