# How does global warming lead toa rising sea level?

## Required materials

* a transparent glass container
* play dough (or rocks)
* ice cubes
* a glass with water
* a permanent marker
* a ruler
* a stopwatch
* a notebook and a pencil
* small branches (e.g. rosemary) to symbolise trees and wooden cubes or cork stoppers to symbolise houses

## 1. Questions before performing the experiment

1. What is global warming?

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1. How does global warming affect the Earth's climate?

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## 2. Watch the first video and perform the experiment

Follow the steps outlined in the tutorial video.

Draw a diagram of your experiment in the box on the next page.

## 3. Record your measurements

Fill the table.

|  |  |
| --- | --- |
| **Time (min)** | **Water level (mm)** |
|  |  |
|  |  |
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## 4. Observations

Describe what happened during the experiment.

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## 5. Reflect and discuss

1. Why is it important to understand the impact of global warming on the sea level?

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1. What ways do you know to reduce global warming and its effects on the environment?

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## 6. Action steps

1. List one thing you can do to help combat global warming in your everyday life.

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## 7. Summary

Summarize the activity by answering the questions: why, what and how.

1. **Why** is the sea level rising?
2. **What** happens when the sea level rises?
3. **How** does the rising sea level impact plants and animals that live near the coast?

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