# Ocean acidification

## Required materials

* 2 glasses (transparent glasses, not plastic)
* an indicator (a chemical substance that changes colour if a solution is acidic or basic)
* a straw
* tap water

## For the indicator

* a red cabbage
* deionized water
* a mortar

## 1. Questions before performing the experiment

1. When you hear the term climate change, what comes to your mind?

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1. What problems does climate change cause?

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1. What do you know about how it affects the oceans?

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## 2. Watch the indicator video and create the indicator

Please wear gloves and an apron.

Prepare the indicator.

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

Follow the steps outlined in the tutorial video.  
Draw your result in the box below.

## 4. Observations

1. What did you observe?

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1. Make a hypothesis. Why did it happen?

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1. What is the gas you blow into the glass?

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## 5. Watch the second experiment video and answer the following questions

1. Did you get similar results?

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1. If not, what do you think happened?

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## 6. Summary

1. Why did the colour change?

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1. What is the impact of the gas that is exhaled into the water?

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1. How do you think you can help the planet?

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