de bron	eTwinning	Itet RAPISARDI DA VINCI
LICEO LINGUISTICO STATALE ILARIA ALPI CESENA	**CHANGING FOR CLIMATE CHANGES**	Zespół Szkół nr 1 im. Stanisława Staszica w Szczytnie

Experiment 5: Consequences of more CO_2 on acidification of sea-water

1. INTRODUCTION

According to the researchers, more than half of the CO2 absorbed worldwide ends up in the ocean. Krill, plankton and seaweed play a significant role in this. ... The ocean stores 50 times more CO2 than the atmosphere and 20 times more than plants on land. But since we produce more and more CO2 we have to look at the consequences of that on the sea-water and the living organisms in the water.

2. ORIENTATION

What are the consequences of more CO2 on acidification of sea-water?

3. PREPARATION

3.1. Materials:

- 2 cups
- (distilled) water
- Straw
- pH test strips

3.2. Method:

- Fill the cups half way with (distilled) water

- Put in each cup a pH test strip – cup 1 is the reference-cup
- Blow into cup 2 for one minute

4. RESULTS

Observations:

Compare the pH of the 3 cups – is the water acid, basic or neutral?

In the cup you have blown (CO) the pH is 6. In the cup with ordinary tap water the pH is 8. So C02 makes water more acid……

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5. REFLECTION

Can you make the connection between this experiment and the effect of greenhouse gases on the ocean?

CO2 makes the oceans more acid. This is bad for the life in the oceans. (also see experiment 4)……

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Take several pictures during the experiment. You can also film it.