



HANDS-ON EXPERIMENTS

RISING SEA LEVELS

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We hear a lot about sea levels rising and why climate change is bad for that. Ice melting into the oceans will cause sea levels to rise, but there's a difference between ice already in the sea, sea ice, and ice on the land, land ice.

Both forms of ice will melt if the average global temperature continues to rise, but what impact will this have on sea levels? With glaciers receding at an alarming rate, and sea ice disappearing each year, does this mean sea levels will continue to rise?

In this experiment we'll look at the difference between the two.

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INSTRUCTIONS

Prepare your ice cubes in the prep session ready for the lesson.

Step 1: Take your plastic tubs and start filling one side with plasticine, creating a shore line (both tubs);
Step 2: In both tubs carve rivers and deltas into the shore line to emulate a drainage system that would occur naturally;

Step 3: Fill the other half of the tubs with food dye and water to the shore line;

Step 4: Use the drawing pins to create sea front properties on the shore line itself;

Step 5: Label your tubs A and B. In tub A, place your ice cubes in the water and mark with a pen the level of the sea with the ice cubes in the water;

Step 6: In tub B, place 8 ice cubes on top of the plasticine, on land. Mark the level of the water in tub B;

Step 7: Wait for the ice to melt in both tubs then mark the sea level again on the outside of the tub.

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EQUIPMENT

Two medium tubs

Plasticine

Drawing pins

Ice cubes

Blue food colour.



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FURTHER INVESTIGATION

- Discuss with classmates why there were different rises of the sea level

- Try more ice in each tub

- Try less ice in each tub

- On a map, note down the cities around the world that may be affected by a rise in sea level.



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VIDEOS FOR THIS RESOURCE AT:

INTRODUCTION:



Clickable Link:

<https://youtu.be/YsCgjnArXA>

CONCLUSION:



Clickable Link:

<https://youtu.be/CBHFK5vV4g>

