How do Ocean Ice or Land ice affect Sea Level?

Goal: Understand the difference in the impact that melting sea ice masses and land ice masses have on sea level rise.

Required materials

- 2 clear plastic containers
- Brown Play Doh divided in 2 equal parts
- Ice cubes
- 2 glasses with water
- Salt
- 1 tablespoon
- 1 marker
- 1 Ruler
- 1 stopwatch
- 1 pencil

1. Pre-Experiment Questions:

What is sea ice, and where can we find it on Earth?

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What is land ice, and where can we find it on Earth?

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2. Watch the Tutorial Video: How do Ocean Ice or Land ice affect Sea Level?

Link:

3. Perform the experiment:

Follow the steps outlined in the tutorial video.

Draw a diagram of your experience.

4. Record your measurements:

Cup 1 (Ocean ice)		Cup 2 (Land ice)	
Time (min)	Height (mm)	Time (min)	Height (mm)

5. Observation:

Describe what happened during the experiment.

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6. Summary:

Summarize the activity by answering the questions (Why, What and How)

Why is it important to understand the impact of melting sea ice and land ice on sea level rise?

What were the key findings or observations from the experiment?

How does the melting of sea ice differ from the melting of land ice in terms of sea level rise?

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