

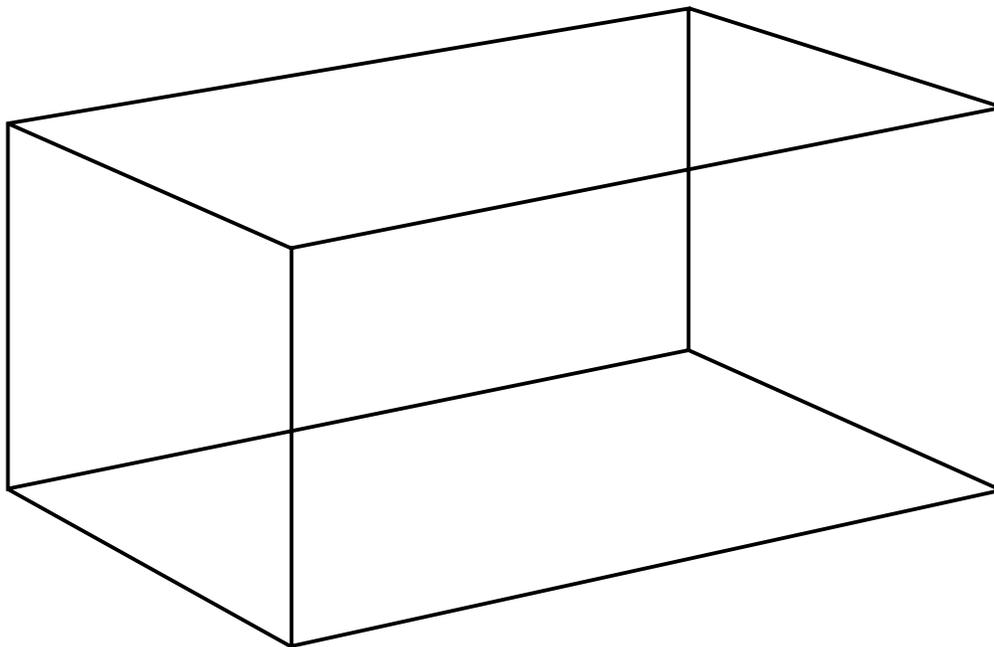
**STUDENT ACTIVITY THREE LAB SHEET**

**What Will Happen if Climate Variability & Change Cause Glacier & Polar Ice Cap Melting (Tank 2)?**

Name \_\_\_\_\_

**TANK 2**

1. Draw the interior of Tank 2 after the glaciers and icebergs were added:

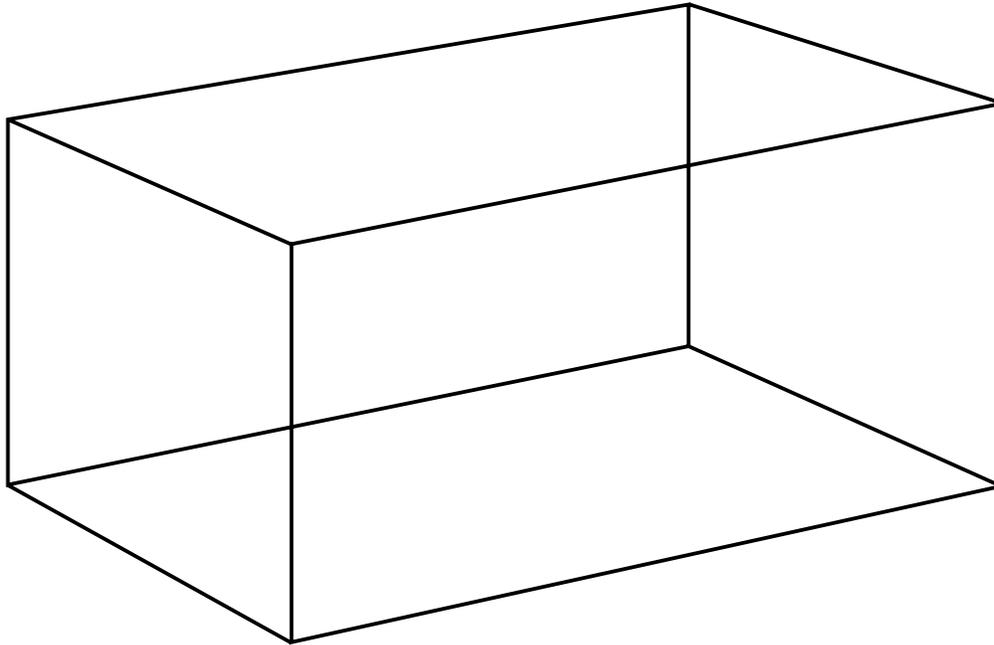


**2. MEASUREMENTS**

| TIME                | TEMPERATURE | WATER HEIGHT |
|---------------------|-------------|--------------|
| Before ice is added |             |              |
| After ice is added  |             |              |
| 1 minute            |             |              |
| 5 minutes           |             |              |
| 10 minutes          |             |              |
| 30 minutes          |             |              |
| 60 minutes          |             |              |

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3. Draw a diagram of Tank 2 below after 60 minutes.



4. Using graph paper, make a graph of both temperature and wave height for Tank 2.

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### STUDENT ACTIVITY THREE LAB SHEET

## What Will Happen if Climate Variability & Change Cause Glacier & Polar Ice Cap Melting?

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Name \_\_\_\_\_

Answer the following questions:

\_\_\_\_\_

1. What was the total temperature change in Tank 1?



\_\_\_\_\_

2. What was the total temperature change in Tank 2?



\_\_\_\_\_

3. Which tank had the highest final temperature?



\_\_\_\_\_

4. Connect the temperature marks on the graphs you made. Which tank heated up the quickest?



\_\_\_\_\_

5. Explain why the tanks heated up differently.



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6. What differences did you observe between Tanks 1 and 2? Did the ice melt at different rates? Describe what you saw.



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7. What happened to the coastline of your land? Did the rising water affect any buildings?



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8. What kinds of problems might this situation cause in the real world?

