Freezing Effects

Procedure

1. **Measure**  Work with a partner. Completely fill a soft drink bottle with water. Pour the water into a graduated cylinder to find out how much water it takes to fill the bottle. On the line below, record this amount of water in mL. This is the volume of the liquid that the bottle can hold.

2. Refill the bottle with water. Then firmly tighten the cap on it.

3. Put the bottle into a freezer and allow it to remain overnight.

4. **Observe**  Take the bottle out of the freezer. Observe any effects that the ice had on the bottle.

5. **Measure**  Estimate the difference in volume between the water-filled bottle and the ice-filled bottle.
Conclusion

1. **Infer** What caused the changes you observed in the bottle?

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2. **Infer** How do the effects that you observed relate to things that happen in nature?

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**Ask Questions**

What questions would you ask about how sediment and water interact in nature? Choose one question to **research** in the library, on websites, or by asking an expert.

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