THE STEP BY STEP

1 - Fill a balloon with tap water, tie it off, and put it in the freezer overnight. You may need to leave it in the freezer for more than a day if you've filled it extremely full.

2 - Use a knife or pair of scissors to cut the balloon and peel it away from the ice. What does the ice Balloon look like? Are there bubbles, fault lines, flattened areas?

3 - Put the Ice Balloon on a plate and pour the salt onto one section at the top of the balloon. Watch as the ice melts and channels of melted water flow down the side of the Ice Balloon. (a drop of food coloring in the salt will highlight these channels)

4 - Fill a clear bowl or large container with water and place the Ice Balloon in the water. How does the Ice Balloon behave?

ADDITIONAL QUESTIONS

What do you notice about your Ice Balloon right after you remove the balloon cover?

Is your Ice Balloon clear? Opaque? Frosty? What causes these changes in the ice?

Why did the salt cause the ice balloon to melt? How could you make it melt faster or slow down the melting?

Does your Ice Balloon float? How much is above the water line, and how much below?

Does your Ice Balloon look different when it is in the water?

ADDITIONAL RESOURCES

All About Icebergs
https://beyondpenguins.ehe.osu.edu/issue/icebergs-and-glaciers/all-about-icebergs

How Icebergs Work
https://science.howstuffworks.com/environmental/earth/geophysics/iceberg1.htm

Middle Schoole Chemistry: Freezing
https://www.middleschoolchemistry.com/lessonplans/chapter2/lesson4

National Geographic: Ice
https://www.nationalgeographic.org/encyclopedia/ice/

SciShow: 17+ kinds of ice
https://www.youtube.com/watch?v=5FHpk5UeHB8