

12 Days of Winter Break

Ice Arch Challenge

What You Need:

- ice cube tray
- water
- paper towel
- another person
- food coloring (optional)



Photo from almostunschoolers.blogspot.com

Instructions:

1. If using food coloring, put some drops in a container of water and mix.
2. Pour water into ice cube tray. Fill up each compartment and put tray in freezer until the water completely freezes.
3. Take out nine ice cubes. Put the tray with the remaining cubes back in the freezer (these are backup in case the nine ice cubes melt or get damaged).
4. Put one cube on the paper towel with another cube a couple inches away. This is the base of the arch.
5. Stack a cube on top of the base pieces. Ask someone to hold the pieces in place until the arch is fully formed. Keep stacking ice cubes on, one on each side, so the arch is symmetrical.
6. When there are four ice cubes on each side, check to make sure the final piece will have enough room to fit between the two sides. Do the base pieces need to be closer or farther apart? If the spacing is not right, rebuild the arch before the ice melts!

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