

**Sticky Ice**

**K-2**

# Super fun science experiment for kids! Make sticky ice.**Estimated Time:**

10-15 minutes

# **Materials:**

* String
* Bowl
* Ice
* Salt

# **Instructions:**

1. Set ice in a bowl and only lift ice using the string
2. Sprinkle salt on to the ice and place string on top while sprinkling a little more salt on the top of the string (make sure string is wet)
3. Wait one minute and lift the string from the ice

# **Possible Variations:**

* Try using different sized salt to see if it has an effect on the time it takes the water to refreeze around the string
* Try using different types of salt to see if it works just as good as table salt

# **The Science:**

The salt sprinkled on the ice causes it to start melting, just as salt added to icy roads does in winter.  Water freezes at 32 degrees F (0 degrees Celsius) but when salt touches the ice, it lowers the freezing point to much lower than that.  In order for the ice to melt, however, it has to take in heat.  The heat that it takes in comes from what’s around it, the water near the ice cube.  Some of this water becomes so cold it refreezes and the string becomes trapped.  The string is now stuck, and you can lift the cube out of the water.