



<p>You will need the following materials:</p> <ul style="list-style-type: none"> • Small plastic cup • Bowl • Ice • Spoon • Coarse rock salt • Juice (try different flavors!) 	<h2>Slurpee Science: Make your own Slurpee</h2>	
<p>Step 1. Fill your cup with juice and set it in the center of the bowl.</p>	<p>Step 2. Surround the cup with ice and sprinkle the ice with lots of salt. Don't get the salt in the juice!</p>	<p>Step 3. Stir the juice gently every thirty minutes. Notice what is happening in the juice, on the sides of the cup, and to the ice.</p>
<p>Step 4. Be patient! When your slurpee reaches the desired consistency, drink and enjoy. This could take up to two hours.</p>	<p>If you have a thermometer at home, you can take temperature readings of the juice. How cold does it get? Why does this happen?</p>	 Albuquerque Bernalillo County Water Utility Authority

How does it work?

An endothermic reaction absorbs heat and cools the surroundings. In this experiment, the salt causes an endothermic reaction that pulls heat from around it to melt the ice. It does this so aggressively that it will drop the temperature around it below freezing which allows your drink to go below freezing. Temperatures may drop as low as -5C and stay at that temperature for a couple of hours without warming up. This allows your juice to freeze. As long as you remember to stir and break up those ice crystals so it doesn't form a block of ice, the result is a wonderful slushie slurpee. Enjoy!