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| **Subject:** | Science |
| **Title:** | Sharpen those Skates! |
| **Grade Level:** | 2 |
| **Purpose:** | Speed up the melting process of ice with the help of a little pressure. Cut a piece of ice in half with fishing line while learning how the process relates to ice skating. |
| **Curricular****Connections:** | * Demonstrate an understanding that solid ice can be changed to other states.
* Recognize that on heating, solid ice melts into liquid water.
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| **Materials:** | * One ice cube per group
* A piece of fishing line with a weight (the heavier the better) tied to each end
* A container
* A tray to keep things from getting wet
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| **Activity:** | 1. Ask students if they know why hockey players have to sharpen their skates frequently. Discuss how skates move over ice and why dull blades slow down players.
2. Turn the container upside down and put it on the tray.
3. Place the ice cube on top of the upside down container.
4. Rest the fishing line over the ice cube so that the weights are left dangling over the side of the container.
5. Observe ice cube and fishing line for around 5 minutes.
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| **Extension:** | Students predict what will happen to ice and upon completion of experiment, students draw and label a diagram and share their results with a classmate. |
| **Assessment:** | 1. Observe students as they complete science inquiry lab.
2. Check comprehension to verify students understand this experiment is similar to ice skating where the pressure of skate blades melts the ice directly underneath, allowing the skater to move smoothly on a thin layer of water.
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