

## What Makes an Ice Cube Melt Faster?



### Introduction

Discover the fastest way to start an ice cube melting - like a scientist. Observe, count time, compare and contrast, get a little wet and have fun.

*Grade Level: K-2*

*Materials: Handouts, many ice cubes, trays or bowls, several dice, salt shakers, towels*

*Time: 30 minutes*

First choose a partner, pick up an ice cube and compare it to your partner's. *Are they the same? Are they different?*

Roll the dice to select one of these 6 methods:

- 1 • Hold the ice cube in your hands for 10 seconds
- 2 • Hold the ice cube in your shirt for 10 seconds
- 3 • Blow on the ice cube for 10 seconds
- 4 • Put 10 shakes of salt on the ice cube
- 5 • Float the ice cube in tap water for 10 seconds
- 6 • Watch the ice cube for 10 seconds, do nothing to it

When you are finished, compare your ice cube to a partner's ice cube. Record what you observed about both ice cubes on the handout.

Next pick up another ice cube and compare it to your partner's. *Are they the same? Are they different?*

Then roll the dice again.

Compare your ice cube to a partner's and record your observations.

Compare all of the methods with the whole class.

*Which method works best?*

*How long does it take for your ice cube to melt completely?*

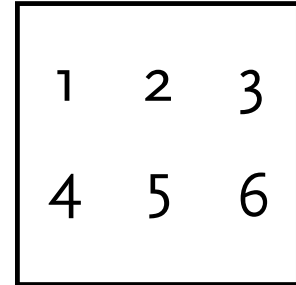
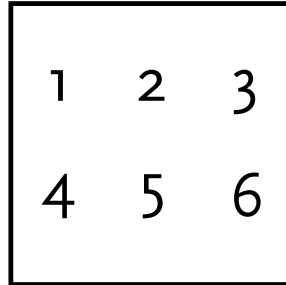


## Experiment One

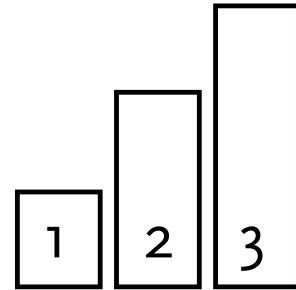
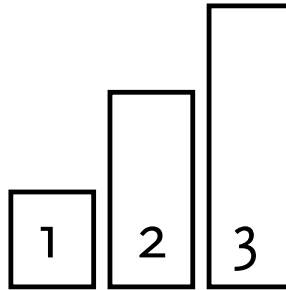
My Ice Cube

Partner's Ice Cube

Number on the Dice  
*circle one*



How Much Did the Ice Cube Melt?  
1 A Little  
2 Some More  
3 The Most  
*color in one bar*

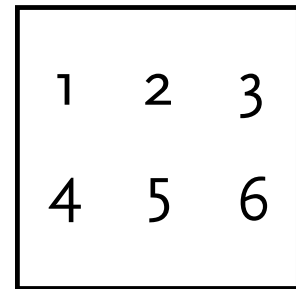
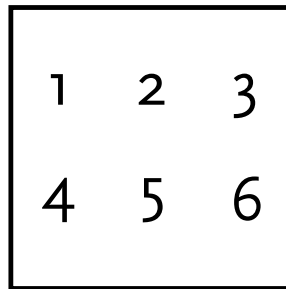


## Experiment Two

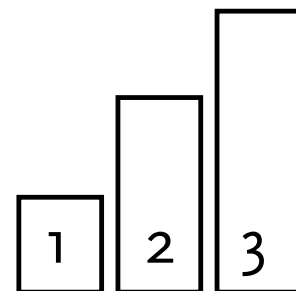
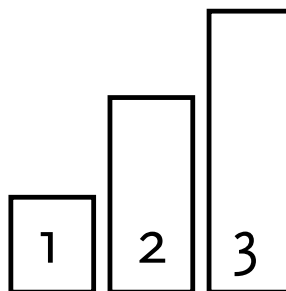
My Ice Cube

Partner's Ice Cube

Number on the Dice  
*circle one*



How Much Did the Ice Cube Melt?  
1 A Little  
2 Some More  
3 The Most  
*color in one bar*



Name \_\_\_\_\_

Date \_\_\_\_\_