

Melting ice

Project ID#

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Q1: Research Question/Engineering Goal

Does salt melt ice faster than sand.

Q3: Data Analysis & Results

Based on the results salt melts ice faster than sand

Results

| 1st test | | | | | 2nd test | | | | |
|---------------|---------------|-----------------|--------------|----------------|---------------|---------------|-----------------|--------------|----------------|
| | Amount melted | Amount remained | Total amount | Percent melted | | Amount melted | Amount remained | Total amount | Percent melted |
| Ice with Salt | 41 ml | 40 ml | 81 ml | 50.6% | Ice with Salt | 33ml | 53 ml | 86 ml | 38.4% |
| Ice with sand | 6 ml | 54 ml | 60 ml | 10% | Ice with Sand | 1ml | 82 ml | 83 ml | 1.2% |
| Ice | 3 ml | 78 ml | 81 ml | 3.7% | Ice | 0.5ml | 93 ml | 93.5 ml | 0.5% |

Q2: Methodology/Project Design

Procedure: First you take nine pieces of ice distribute them evenly into three bowls. Put salt on top of the ice in one of the bowls, sand on top of the ice in the second bowl, and just ice in the third bowl. Then you put them in the refrigerator for about three hours. Next you take out the melted water and measure it and record it. Let it set out at room temperature for the rest of the time and let it all melt. Measure again and record it. Replicated the experiment two more times.

Q4: Interpretation & Conclusions

Conclusion: My hypothesis was right, the ice with the salt melted the fastest and that the ice with the sand melted faster than the ice alone.

