**Which is the Best Insulator:**

**Air, Styrofoam, Foil, or Cotton**

**Results Chart**

**Part 1:** Placing the cups into the freezer

|  |  |  |  |
| --- | --- | --- | --- |
| **Cup** | **Insulating Material** | **Time to Form Ice (min.)** | **Order Ice Formed** |
| 1 | Styrofoam |  |  |
| 2 | Aluminum Foil |  |  |
| 3 | Cotton |  |  |
| 4 | Air |  |  |

Which material insulated the water the best? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Which material insulated the water the worst? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Part 2:** Placing the cups into the warm water

|  |  |  |  |
| --- | --- | --- | --- |
| **Cup** | **Insulating Material** | **Time to Melt Ice (min.)** | **Order Ice Melted** |
| 1 | Styrofoam |  |  |
| 2 | Aluminum Foil |  |  |
| 3 | Cotton |  |  |
| 4 | Air |  |  |

Which material insulated the ice the best? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Which material insulated the ice the worst? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_