Phase Change Device Worksheet

# Benchmark Test

Temperature of the room:

|  |
| --- |
|  |

Time it took for ice to melt at room temperature:

|  |
| --- |
|  |

Notes or observations during the benchmark test:

|  |
| --- |
|  |

# Goal

(Circle one)

Speed up ice melting / Slow down ice melting

# Existing Devices

Notes about existing devices you researched:

|  |
| --- |
|  |

# First Device

Sketch of device:

|  |
| --- |
|  |

Materials needed:

|  |
| --- |
|  |

Description of the design:

|  |
| --- |
|  |

Time it took for ice to melt with the device:

|  |
| --- |
|  |

Observations:

|  |
| --- |
|  |

# Modified Device

What will you change in your device?

|  |
| --- |
|  |

Why did you make these changes?

|  |
| --- |
|  |

Time it took for ice to melt in the modified device:

|  |
| --- |
|  |

Observations:

|  |
| --- |
|  |

# Final Analysis

Was your second design more effective than the first? Why or why not?

|  |
| --- |
|  |

What did you learn about how your device affects the rate of ice melting?

|  |
| --- |
|  |