**Lab Worksheet**

**Hypotheses**

Activity 1.

Activity 2.

Activity 3.

*continued on next page*

**Observations/Data Tables**

Data Table 1: Modelling the Greenhouse Effect

|  |  |  |
| --- | --- | --- |
| **Time (min)** | **Bare thermometer**  **(degrees C)** | **Thermometer in cup (degrees C)** |
| 0 |  |  |
| 1 |  |  |
| 2 |  |  |
| 3 |  |  |
| 4 |  |  |
| 5 |  |  |
| 6 |  |  |
| 7 |  |  |
| 8 |  |  |
| 9 |  |  |
| 10 |  |  |
| 11 |  |  |
| 12 |  |  |
| 13 |  |  |
| 14 |  |  |

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Data Table 2: Modelling Albedo

|  |  |  |  |
| --- | --- | --- | --- |
| **Time (min)** | **Temperature of water in cup with dark paper on the top**  **(degrees C)** | **Temperature of water in cup with aluminum foil on the top (degrees C)** | **Temperature Difference (degrees C)** |
| 0 |  |  |  |
| 1 |  |  |  |
| 2 |  |  |  |
| 3 |  |  |  |
| 4 |  |  |  |
| 5 |  |  |  |
| 6 |  |  |  |
| 7 |  |  |  |
| 8 |  |  |  |
| 9 |  |  |  |
| 10 |  |  |  |
| 11 |  |  |  |
| 12 |  |  |  |
| 13 |  |  |  |
| 14 |  |  |  |

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Data Table 3. Sea Ice, Glacier Ice, and Sea Level Rise

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Initial Water Volume**  **(mL)** | **Final Water Volume after Ice Melt**  **(mL)** | **Change in Water Volume (Final Volume – Initial Volume)**  **(mL)** |
| **Melting Sea Ice**  **(ice cubes in graduated cylinder)** |  |  |  |
| **Melting Glacier Ice**  **(ice cubes in funnel)** |  |  |  |