**Group Member Names**: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Initial Thermometer Temperature: \_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. Temperature after Summer (light): \_\_\_\_\_\_\_\_\_\_\_\_\_\_
3. Temperature after Winter (light): \_\_\_\_\_\_\_\_\_\_\_\_\_\_
4. Temperature after Winter (no light): \_\_\_\_\_\_\_\_\_\_\_\_\_\_

ΔSummer = B. – A. = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ ΔWinter = D. – B. = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Overall temperature Change**: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

= ΔWinter - ΔSummer

|  |  |  |
| --- | --- | --- |
| **SECTION** | **POINT VALUE** | **POINTS EARNED**  **(teacher will fill in this space)** |
| Initial Design Approval  1 point each:   * Group identified * House drawing included * Materials listed * Innovations Considered | 4 |  |
| Constructed House   * House build in its entirety | 40 |  |
| Summer Performance   * Subtract 1 point for each 0.5o increase in temperature during summer test (Summer – Initial) | 8 |  |
| Winter Performance   * Subtract 1 point for each 0.5o decrease from starting temperature after winter test is complete   (No light – initial) | 8 |  |
| Energy-saving Innovations  (2-3 pts each/innovative design)  LIST INNOVATIONS: | 12 |  |
| Building Meets Specifications  (1 pt each)   * Size is appropriate * 2 working doors * reasonable window size * Walls of reasonable width * Reasonable cost design | 5 |  |
| Aesthetic Appeal (outside of house only) | 5 |  |
| Final Write-Up  Reason for design (2 pts)  Arial view of plan, compass directions, & major vegetation (4 pts)  Approved initial design (2 pts)  Analysis of how well each innovation worked (6 pts/2 pts each)  Suggestions for improvements (4 pt) | 18 |  |
| TOTAL | 100 |  |

**Attach this sheet to the front of your FINAL WRITE-UP before turning in.**

Teacher Comments: