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

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

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

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

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 Approval1 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-UpReason 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: