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

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

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

Initial Thermometer Temperature: \_\_\_\_\_\_\_\_\_\_\_\_\_\_

Temperature after Summer (light): \_\_\_\_\_\_\_\_\_\_\_\_\_\_

Temperature after Winter (light): \_\_\_\_\_\_\_\_\_\_\_\_\_\_

Temperature after Winter (no light): \_\_\_\_\_\_\_\_\_\_\_\_\_\_

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

= ΔWinter - ΔSummer

|  |  |  |
| --- | --- | --- |
| **SECTION** | **POINT VALUE** | **POINTS EARNED** |
| 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 1o increase in temperature during summer test (Summer – Initial) | 8 |  |
| Winter Performance   * Subtract 1 point for each 1o decrease from starting temperature after winter test is complete   (No light – initial) | 8 |  |
| Energy-saving Innovations  (2-3 pts each/innovative design) | 12 | List innovations: |
| 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 | 5 |  |
| Final Write-Up   * Reason for design (2 pts) * Arial view of plan, compass directions, major vegetation (4 pts) * Approved initial design * Analysis of how well each innovation worked (2 pts each) * Suggestions for improvements (4 pt) | 18 |  |
| TOTAL | 100 |  |

Other Comments: