**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 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 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: