

Solar House Design Rubric Spring 2018

Group Member Names: _____

A. Initial Thermometer Temperature: _____

B. Temperature after Summer (light): _____

C. Temperature after Winter (light): _____

D. Temperature after Winter (no light): _____

Δ Summer = B. – A. = _____ Δ Winter = D. – B. = _____

Overall temperature Change: _____
 = Δ Winter - Δ Summer

SECTION	POINT VALUE	POINTS EARNED (teacher will fill in this space)
Initial Design Approval 1 point each: <ul style="list-style-type: none"> • Group identified • House drawing included • Materials listed • Innovations Considered 	4	
Constructed House <ul style="list-style-type: none"> • House build in its entirety 	40	
Summer Performance <ul style="list-style-type: none"> • Subtract 1 point for each 0.5° increase in temperature during summer test (Summer – Initial) 	8	
Winter Performance <ul style="list-style-type: none"> • Subtract 1 point for each 0.5° decrease from starting temperature after winter test is complete (No light – initial) 	8	

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<p>Energy-saving Innovations (2-3 pts each/innovative design)</p> <p>LIST INNOVATIONS:</p>	12	
<p>Building Meets Specifications (1 pt each)</p> <ul style="list-style-type: none"> • Size is appropriate • 2 working doors • reasonable window size • Walls of reasonable width • Reasonable cost design 	5	
<p>Aesthetic Appeal (outside of house only)</p>	5	
<p>Final Write-Up</p> <p>Reason for design (2 pts)</p> <p>Arial view of plan, compass directions, & major vegetation (4 pts)</p> <p>Approved initial design (2 pts)</p> <p>Analysis of how well each innovation worked (6 pts/2 pts each)</p> <p>Suggestions for improvements (4 pt)</p>	18	
<p>TOTAL</p>	100	

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

Teacher Comments: