



Design and Build a Passive Solar House— Blackline Masters

Skills and Strengths Self-assessment Chart for _____ .

<p><i>I can recognize my personal preferences.</i></p> <p><i>I like to...</i></p>	<p><i>I can recognize my skills, strengths, and abilities.</i></p> <p><i>I can...</i></p> <p><i>I am good at...</i></p>	<p><i>I can list jobs that connect with my preferences, my skills, strengths, and abilities.</i></p>

Passive Solar House Specifications and Design

Names _____

Specifications

<p><u>The house must have:</u></p> <ul style="list-style-type: none">• at least four walls• at least four windows• two working doors• roof	<p><u>The house must:</u></p> <ul style="list-style-type: none">• be at least 15 cm high• have an area of at least 30 cm• have a place inside for a thermometer to record temperature
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Design

Temperature Recording

Names _____

House in the Sun	House in the Shade
After:	After:
2 minutes _____	2 minutes _____
4 minutes _____	4 minutes _____
6 minutes _____	6 minutes _____
8 minutes _____	8 minutes _____
10 minutes _____	10 minutes _____
12 minutes _____	12 minutes _____

Passive Solar House Evaluation

Names _____

1. Did you succeed in creating a solar house that kept cool in the Sun or warm in the shade? If not, why?

2. If you could have had access to materials that were different than those provided, what would your group have requested? Why?

3. If you had to do it all over again, how would you change your design? Why?

4. Do you think house designers and builders have to adapt their original plans during the construction process? Why might they have to?

5. What designs or methods did you see other teams try that you thought worked well?

6. What are the advantages of passive solar building design?

7. What are the disadvantages of passive solar building design?
