Renewable tech

Passive Solar

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1. Define passive solar design.

2. Describe the fundamental law of heat movement.

3. Describe each of the 3 heat movement mechanisms and how passive solar design capitalizes on each.

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4. Define thermal capacitance. List materials that increase thermal capacitance.

5. What are the 5 elements of every passive solar building?

6. Describe how each of the 5 elements functions to provide a Direct Gain.

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7. Define indirect gain. What are the properties of an Indirect gain solar home?

8. How does a sunspace operate.

9. In what ways does a passive solar home prevent overheating in summer??

10. All windows are not created equal.

11. Explain what the Solar heat gain coefficicient is.

12. What kind of coefficient is required for a passive solar home? What error is often made and to what effect?