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## Solar House Bingo Answer Key

Visit the DesertSOL house and be the first team to get five answers in a row!

S	O	L	A	R
An average of <b>8</b> gallons of water are saved by using a low flow showerhead.	Why did the DesertSOL team not plant shade trees? <b>- The house is designed to be mobile. -Trees consume large amounts of water.</b>	DesertSOL collects rainwater using a <b>cistern</b> .	Name one award DesertSOL has won: <b>See below</b>	What is the deck made from? <b>Glass infused wood</b>
What is your favorite feature in the house? <b>Answers vary</b>	Name one thing inside that can be controlled using a phone. <b>thermostat, lights, television</b>	What does xeriscape mean? <b>Alternative landscaping that focuses on water conservation</b>	DesertSOL uses <b>LED</b> lighting for maximum efficiency	What does ENERGY STAR mean? <b>EPA standard that reduces energy consumption, cost, and pollution.</b>
What is your favorite color? <b>Answers vary</b>	What is cross ventilation? <b>Air moving from one side of the room to the other.</b>		To use natural lighting, the windows face which 2 directions? <b>North and South</b>	Radiant floor heating transfers energy <b>3500 times</b> more efficiently than a traditional heater.
The shade patterns on the porch look like a <b>mesquite</b> tree.	Name one native plant found in the exhibit: <b>See below</b>	What does the SOL in DesertSOL stand for? <b>SOLar energy, SOlution to resources, &amp; SOUL of desert</b>	The space between walls that provides insulation is called the <b>building envelope</b> .	What age range was the DesertSOL designed for? <b>35-75</b>
Why are the east and west walls shorter than the others? <b>Block heat from desert sun</b>	How many languages were spoken by the DesertSOL team? <b>12</b>	How many kilowatts of power do the solar panels create? <b>6.75 kw</b>	What is the name of the book by the bed? <b>Answers vary</b>	What resource does DesertSOL use to heat water? <b>solar thermal collector</b>

**Awards won:** Project of the Year, 1<sup>st</sup> Place Energy Balance, 1<sup>st</sup> place Hot Water, 1<sup>st</sup> place market appeal, 2<sup>nd</sup> place Communication, 3<sup>rd</sup> place Engineering

**Native plants on site:** firecracker penstemon, brittlebush, Siskiyou pink gaura, globe mallow, purple sage, Utah agave, apache plume, Mexican cliffrose, creosote bush, California barrel cactus, California buckthorn, Joshua tree, mormon tea, desert marigold.