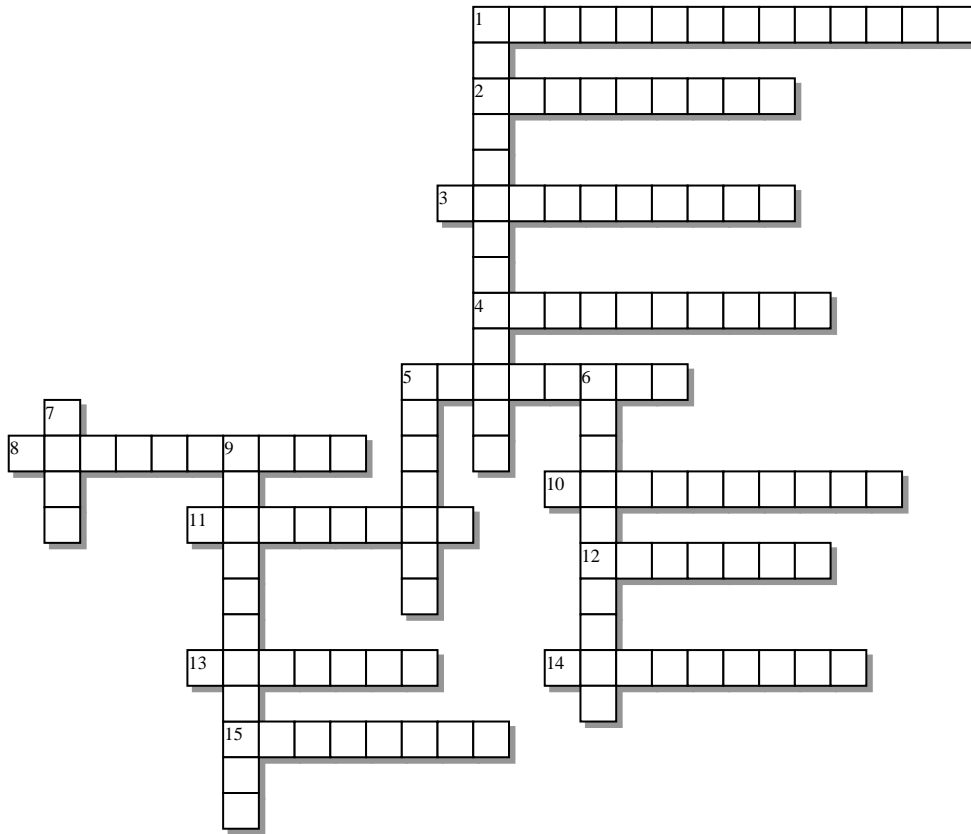


Crossword Puzzle

Name: \_\_\_\_\_

Date: \_\_\_\_\_

### Passive Solar



## Passive Solar

### Across:

- 1 - (2 words) solar radiation passes thru glass and heat is stored in brick or cement
- 2 - heat moving similar to light, in a vacuum or transparent medium (primary means of energy transfer)
- 3 - material that blocks the transfer of heat
- 4 - heat circulates thru liquid and gases (warm air rises)
- 5 - living space enclosed with glass (sun space)
- 8 - angle made by a light ray reflected from a surface
- 10 - heat moves directly thru solid bodies (metal spoon is heated when left in hot liquid)
- 11 - installation or construction of solar energy system after initial building of a structure
- 12 - arc of the sun's path that extends from the zenith (highest point) to the horizon (lowest point), summer - greatest, winter - lowest
- 13 - glass
- 14 - (2 words) time of day when the sun is at it's highest peak, usually noon, but depends on local time zone
- 15 - height of the sun at noon above due south horizon, dependent on the time of year

### Down:

- 1 - at right angles, 90\*
- 5 - effective way to cool buildings using eaves, awnings, walls, trees, etc.
- 6 - amount of diffuse and direct sunlight reaching a surface
- 7 - mound of earth abutting a wall to stabilize inside temperature or deflect wind
- 9 - (2 words) concrete blocks or bricks that store the heat from the sunlight, heat sink

### Answers:

altitude, azimuth, berm, conduction, convection, glazing, insolation, insulation, passive heating, perpendicular, radiation, reflection, retrofit, shading, solar noon, solarium, thermal mass

Crossword Puzzle  
Solution

Name: \_\_\_\_\_  
Date: \_\_\_\_\_

### Passive Solar

