**Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Grade \_\_\_\_\_**

**To reflect is to do an X-Word**

Across

4. Reflection that occurs when parallel rays of light hit a bumpy or uneven surface.

7. The source of all energy on earth.

8. Reflection the occurs when parallel rays of light hit a smooth surface.

9. When light bounces off of a surface.

11. Wave [property](http://puzzlemaker.discoveryeducation.com/code/BuildCrissCross.asp) the is related to energy.

12. Materials that [scatters](http://puzzlemaker.discoveryeducation.com/code/BuildCrissCross.asp) light as it passes through.

13. When light goes through an [object](http://puzzlemaker.discoveryeducation.com/code/BuildCrissCross.asp).

Down

1. Wave that does not require matter.

2. Light wave represented as \_\_\_\_.

3. Type of wave that requires matter.

5. A material that reflects or absorbs all of the light that strikes it.

6. When light takes in an object.

10. Any object that transmits light



