

### Answer on the question #63216, Chemistry / General Chemistry

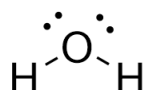
**Question:**

Draw the Lewis Structure for water, H<sub>2</sub>O

**Answer:**

A Lewis symbol is a symbol in which the electrons in the valence shell of an atom or simple ion are represented by dots placed around the letter symbol of the element. Each dot represents one electron.

Here is the Lewis structure of water: 4 dots next to oxygen atom represent 2 electronic pairs, and 2 lines show 2 bonds Hydrogen-Oxygen.



In more detail: Oxygen valence shell is  $2s^2 2p^4$ , so 2 pairs of electrons and 2 electrons that make bonds to hydrogen. Then, “free” pairs you show with dots, and bonds you show with lines, as on the picture above.

<https://www.AssignmentExpert.com>