
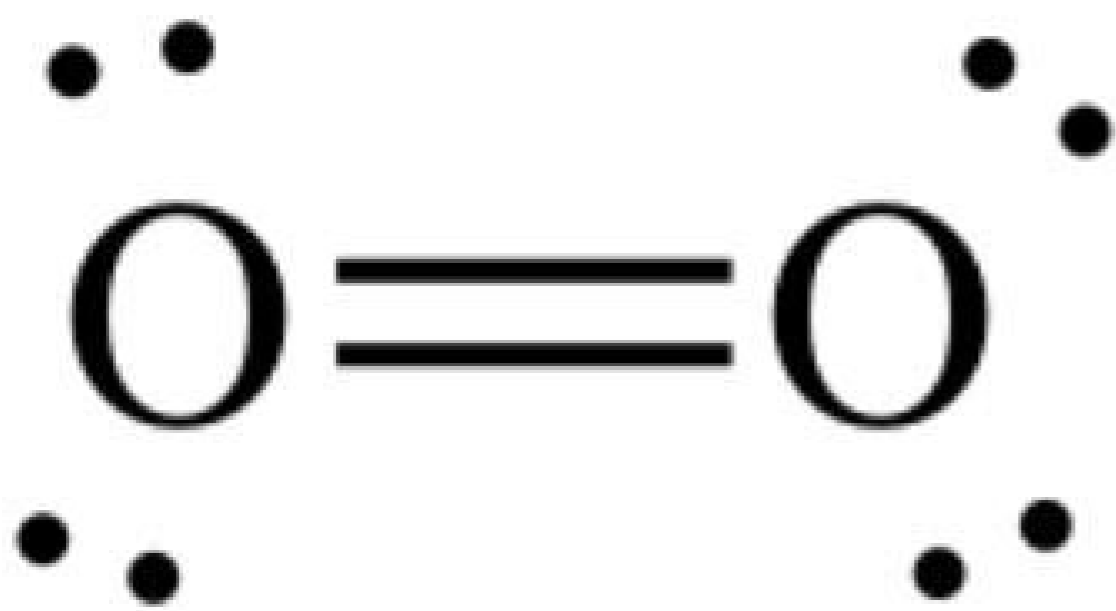


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KEY

NAME _____ PER _____

Lewis Structures and naming practice

Naming covalent compounds is easy IF you remember six simple prefixes and one suffix. All we do to name covalently bound molecules is tell how many of the different atoms there are in the molecule by adding a prefix, then the whole thing ends with the *-ide* suffix. For example, SiO₂ is silicon *dioxide*. N₂O₄ is *dinitrogen tetroxide*. CCl₄ is carbon *tetrachloride*. The six you need to know are -

Di - to indicate there are two of them

Tri - for three

Tetra - for four (sometimes we drop the "a" for tetra through deca (10), almost always when the element starts with a vowel- you'll get a feel for it, and I'll never mark you down if you don't)

Penta - for five

Hexa - for six

Mono - for one (only used if there's one of some element and multiples of another. Then, you put the mono in for the singleton. For example, CO₂ is carbon *trioxide*, *monobromide*.)

I promise naming's way easier than it seems. Try it with these as you practice Lewis structures. Write the name or the formula, and draw the Lewis structure.

<p>Dihydrogen oxide $2e^-$</p> <p>$H-\ddot{O}-H$</p> <p><i>You should've known</i></p>	<p>Sulfur trioxide $24e^-$</p> <p>$\ddot{O}=\ddot{S}(\ddot{O})_2$</p>
<p>SO₂ <i>Sulfur dioxide</i> $18e^-$</p> <p>$\ddot{O}=\ddot{S}=\ddot{O}$</p>	<p>NH₃Cl $5+2(1)+7=14e^-$</p> <p><i>Nitrogen trichloride</i></p> <p>$H-\ddot{N}(\ddot{Cl})_3$</p>
<p>NO <i>Nitrogen oxide</i> $11e^-$</p> <p>$\ddot{N}=\ddot{O}$</p>	<p>C₂F₄ $2(4)+4(7)=36e^-$</p> <p><i>Dicarbon tetrafluoride</i></p> <p>$F_2C=CF_2$</p>

Lewis Dot Diagram Worksheet

Customizable & Printable

STEMworksheets.com

Atomic Structure:

What 3 parts of an atom does the electron represent?

What is the charge of the electron?

What is the mass of the electron?

What is the location of the electron?

What is the energy of the electron?

What is the spin of the electron?

What is the wave function of the electron?

What is the probability of finding the electron?

What is the uncertainty principle?

What is the Heisenberg uncertainty principle?

What is the Schrödinger equation?

What is the wave function?

What is the probability density?

What is the expectation value?

What is the commutator?

What is the uncertainty principle?

What is the Heisenberg uncertainty principle?

What is the Schrödinger equation?

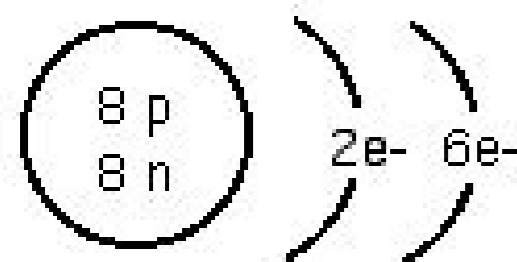
What is the wave function?

What is the probability density?

What is the expectation value?

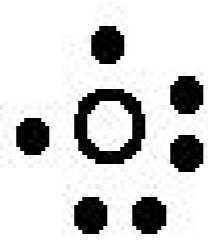
What is the commutator?

Lewis Element Symbols



Oxygen Atom Bohr Diagram

Group 16, VIA, or 6

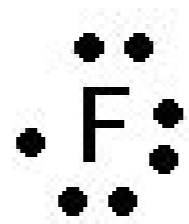


Lewis Symbol

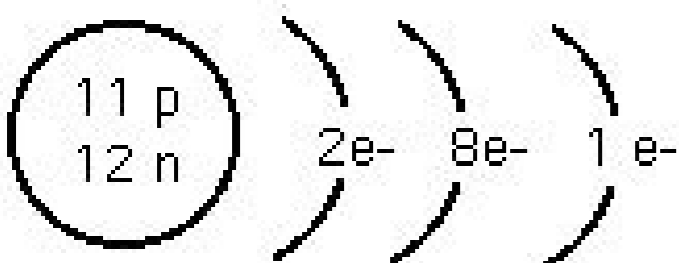


Fluorine Atom Bohr Diagram

Group 17, VIIA, or 7



Lewis Symbol



Sodium Atom Bohr Diagram

Group 1 or IA



Lewis Symbol

C. Ophardt, c. 2003

Lewis electron dot structure worksheet answers. Electron configuration and lewis dot structure worksheet. Valence electron and lewis dot structure worksheet.

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