

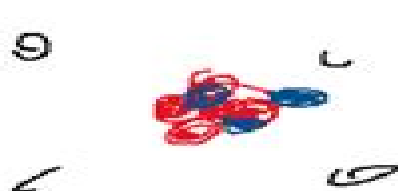
## Chemthink guided notes – Ions

**Note:** There are no “back” buttons on this tutorial so be careful not to click “continue” on the slide until you have all of the information.

At certain times atoms can gain or lose one or more \_\_\_\_electrons\_\_\_\_\_. When this happens we say that the atom has formed an \_ion\_\_\_\_\_. Ions are just individual atoms or groups of atoms that has a charge. This charge comes from an imbalance of in the number of \_\_\_\_positive\_\_\_\_\_ protons and \_\_\_\_negative\_\_\_\_\_ electrons.

Since the electrons don't contribute to the \_\_\_\_mass\_\_\_\_\_ of the atom, gaining or losing electrons does not change the overall mass of the atom. It does affect it in other ways. Ions can behave very differently than the atoms from which they were formed. As we will see in later units, forming ions is one way that atoms bond together to make new substances.

**Draw a picture of the lithium atom and write the particles in the particle inventory**



Protons 3

Electrons 3

Neutrons 4 \_\_\_\_\_

total charge = 0

symbol: Li

What happens when an electron is lost?

symbol?

**Draw a picture of the oxygen atom and write the particles in the particle inventory**



Protons 8

Electrons 8

Neutrons 8 \_\_\_\_\_

total charge = 0

symbol: O

What happens when two electrons are gained?

An ion of -2 charge forms

symbol?  $O^{2-}$

# Ions Chemthink Answers

**John Burgess**



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