

CHEMICAL BONDING
An Introductory Webquest

Go to:

<http://tinyurl.com/ionicbondingtutorial>

1) Describe what happens when two negatively charged particles interact with one another. (you can draw a diagram to help illustrate your ideas)

2) When will oppositely charged atoms stick together?

3) A. What is an ion? (Look this up online)

B. What is a **cation** and where can you find it on the periodic table?

C. What is an **anion** and where can you find it on the periodic table?

4) Take a look at the ionic bond formed between Sodium and Chlorine atoms.

A. *Draw* each atom below as it looks like in NaCl on the website.

B. Label the Na and Cl as either + or -. And label each as either Cation or Anion.

Name:	Period:	Seat #:
--------------	----------------	----------------

5) Describe how ionic compounds form crystals:

COVALENT BONDS **Go to:**

<http://tinyurl.com/covalentbondingtutorial>

6) If an atom, such as hydrogen, is able to form a covalent bond, describe what happens when the electron shells of two atoms overlap:

A. What happens when the two atoms are fairly close?

B. What happens when the two atoms are TOO close?

7) What does the nucleus of an atom want to do to its own electrons?

8) What does the nucleus of one atom want to do to the electrons of a nearby atom?

9) Are the atoms really “sharing” electrons?

