Reactivity Lesson 2 - lons

Chemistry - Key Stage 3

Miss Fenner



Why are the group 0 elements unreactive?

Their outer shell...

So they are...



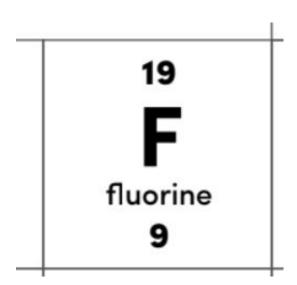
Why are the group 0 elements unreactive?

Their outer shell is full of electrons.

So they are stable.

Independent Practice

- 1. A magnesium atom loses 2 electrons. State the charge of the ion it forms.
- 2. Explain how sodium forms an ion with a charge of +1.
- 3. Draw the ion that forms when fluorine reacts.

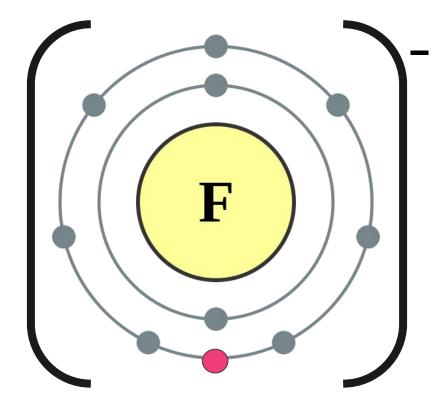




Independent Practice

- 1. The magnesium ion will have a charge of 2+.
- 2. When sodium reacts it loses 1 electron to have a full outer shell. So it has one extra positive proton than negative electron and has an overall charge of +1.

3.





How does a chemical bond form in sodium chloride?

Sodium atoms ____ an electron to form a sodium ion with a charge of ____.

Chlorine atoms ___ an electron to form a chloride ion with a charge of ____.

There is an attraction between...

How does a chemical bond form in sodium chloride?

Sodium atoms **lose** 1 electron to form a sodium ion with a charge of **+1**. Chlorine atoms **gain** 1 electron to form a chloride ion with a charge of **-1**. There is an attraction between **Na+ and Cl-which creates the chemical bond**.

