## Question #49683, Chemistry, Inorganic Chemistry

My question is, how the periodic table, bonding, and atomic structure relates to the conclusions from titration of sodium carbonate with hydrochloric acid

## **Answer:**

$$Na_2CO_3 + 2HCI \rightarrow 2NaCI + H_2CO_3$$

Periodic table helps to describe the structure of atoms. Due to this, we can predict how atoms interact with other atoms or molecules.

In this titration, for example, using the periodic law can be compared to chlorine and hydrogen to predict that the molecule of hydrogen chloride will be polar and due to the high proportion of bond ionicity it will be a strong acid.

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