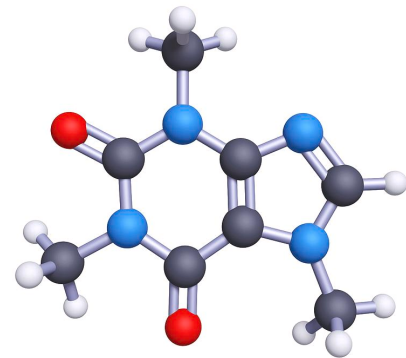


Learning Guide 2.4 – Compounds

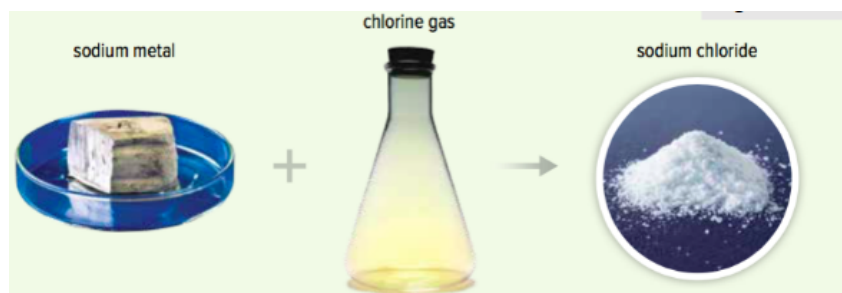
What is the difference between an element and a compound? Use the molecular diagram of caffeine in your answer.



Caffeine
 $C_8H_{10}N_4O_2$

What is an Ionic compound? What types of elements are involved? What are their charges?

Draw a Lewis Dot Structure that will show how Sodium and Chlorine bond to form Sodium Chloride.



What are some properties of Ionic bonds?

How is a covalent bond different from an Ionic bond (hint: it's about the electron)?

<p>What type of bond is formed when two non-metal atoms share electrons?</p>	<p>What is a molecule?</p>	<p>Why do covalent compounds tend to have low melting points?</p>
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