

Are You Ready For Grade 11 Chemistry?

Answer the following questions from what you recall from grades 9 and 10 and using your periodic table. You may refer to your textbook as needed.

1) Complete the table below

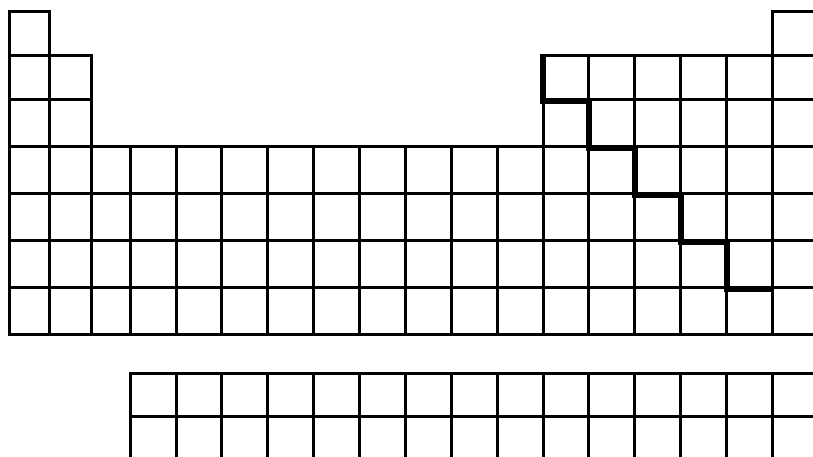
	Proton	Neutron	Electron
Relative mass	1		
Relative charge	+1		

2) Complete the table below:




	Sodium	Fluorine	Argon
Symbol			
Metal or Non-metal?			
Group Name			
Standard Atomic Notation (A_ZX)			
# of protons			
# of electrons			
# of neutrons			
# of electron shells			
# of valence electrons			
Combining Capacity			
Lewis Diagram			
Bohr Diagram			

- 3) Shade in each of the listed groups on the periodic table in a different colour. If you do not have coloured pencils, you may draw a bold box around each group and number them. Use the list and boxes to the left as a legend.

- Alkali Metals
 Alkaline Earth Metals
 Transition Metals
 Metalloids
 Halogens
 Noble Gases
 Rare Earth Metals



- 4) Check all of the appropriate boxes to identify each of the following as an atom, molecule, compound or element. More than one designation may apply for each.

<p style="text-align: center;">H_2O</p> <p><input type="checkbox"/> atom <input type="checkbox"/> molecule <input type="checkbox"/> element <input type="checkbox"/> compound</p>	<p style="text-align: center;"><i>caffeine</i></p>  <p><input type="checkbox"/> atom <input type="checkbox"/> molecule <input type="checkbox"/> element <input type="checkbox"/> compound</p>	<p style="text-align: center;">Cu</p> <p><input type="checkbox"/> atom <input type="checkbox"/> molecule <input type="checkbox"/> element <input type="checkbox"/> compound</p>
<p style="text-align: center;">:Br:Br:</p> <p><input type="checkbox"/> atom <input type="checkbox"/> molecule <input type="checkbox"/> element <input type="checkbox"/> compound</p>	<p style="text-align: center;"></p> <p><input type="checkbox"/> atom <input type="checkbox"/> molecule <input type="checkbox"/> element <input type="checkbox"/> compound</p>	<p style="text-align: center;"></p> <p><input type="checkbox"/> atom <input type="checkbox"/> molecule <input type="checkbox"/> element <input type="checkbox"/> compound</p>

- 5) Distinguish between ionic vs. covalent (molecular) bonds. Provide an example of a compound for each. In your answer, describe how each type of bond is formed.
