



**Provincial Department of Education – Sabaragamuwa – Week School**

**Week: - 6<sup>th</sup> June- 12<sup>th</sup> June, 2021**

**Subject: Science**

**Grade -10**

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Write the answers for the following questions after reading the chapter “**Chemical Bonds**” in your text book.

(1) Complete the following table.

Molecule	Lewis dot structure
H <sub>2</sub>	
Cl <sub>2</sub>	
NH <sub>3</sub>	
H <sub>2</sub> O	

(2) What the special properties of water due to the intermolecular forces of water molecule?

(3) The set up relevant to the activity 03 in page number 180 of your text book can be made at home. Use a 9 V battery for dry cell here. Take small amount (30 g) of copper sulphate. Use a jam bottle instead of beaker. Wash your hands after the activity.

Solution	Bulb lighten / not lighten	Electricity conducts/not	Bond type of the compound
Sugar solution			
Copper sulphate solution			
Salt solution			

4) Mention four differences between covalent compounds and ionic compounds.

(5) What are lone pairs in a molecule?

(6) Draw the structures of the following molecules and mark the lone pairs on them.

(i)  $\text{CO}_2$

(ii)  $\text{N}_2$

(iii)  $\text{Cl}_2$