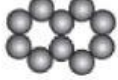


- 1 Nyatakan jenis bahan berdasarkan rajah dan maksudnya. Kemudian, kelaskan bahan-bahan daripada maklumat yang diberi./State the types of substances based on the diagrams and the meanings. Then, classify the substances from the given information. **TP1**

Kuprum <i>Copper</i>	Kuprum(II) sulfat <i>Copper(II) sulphate</i>	Oksigen <i>Oxygen</i>	Zink <i>Zinc</i>	Magnesium oksida <i>Magnesium oxide</i>	Bromin <i>Bromine</i>
Naftalena <i>Naphthalene</i>	Karbon dioksida <i>Carbon dioxide</i>	Aluminium <i>Aluminium</i>	Air <i>Water</i>	Natrium klorida <i>Sodium chloride</i>	Besi <i>Iron</i>

Bahan/Substances	Maksud/Meanings	Contoh/Examples
(a) 	Bahan yang terdiri daripada zarah atom sahaja <i>Substance made up of atomic particles only</i>	Kuprum, besi, aluminium, zink <i>Copper, iron, aluminium, zinc</i>
(b) 	Bahan yang terdiri daripada zarah molekul sahaja <i>Substance made up of molecular particles only</i>	Oksigen, air, karbon dioksida, bromin, naftalena <i>Oxygen, water, carbon dioxide, bromine, naphthalene</i>
(c) 	Bahan yang terdiri daripada zarah ion sahaja <i>Substance made up of ionic particles only</i>	Natrium klorida, kuprum(II) sulfat, magnesium oksida <i>Sodium chloride, copper(II) sulphate, magnesium oxide</i>

2 Bandingkan ciri-ciri bahan atom, bahan molekul dan bahan ion. **TP2**

Compare the physical properties of atomic substances, molecular substances and ionic substances.

Gas/Gas Kuat/Strong	Tinggi/High Leburan/Molten	Pepejal/Solid Rendah/Low	Boleh/Can Tidak boleh/Cannot	Lemah/Weak Cecair/Liquid
Ciri-ciri Properties	Bahan atom Atomic substances	Bahan molekul Molecular substances	Bahan ion Ionic substances	
(a) Keadaan fizikal pada suhu bilik Physical state at room temperature			Pepejal Solid	 Praktis Kendiri
(b) Daya tarikan antara zarah Forces of attraction between the particles		Lemah Weak		
(c) Takat lebur dan takat didih/Melting and boiling points	Tinggi High			
(d) Kekonduksian elektrik Electrical conductivity	mengkonduksikan elektrik	mengkonduksikan elektrik	Dalam keadaan <u>leburan</u> atau larutan akueus In <u>molten</u> state or aqueous solution	