Worksheet 2.1	
Review of strong bonding	

NAME: CLASS:

INTRODUCTION

This worksheet revises the bonding and structure of ionic, metallic and covalent molecular and network substances. .

No.	Question	Answer				
1	Classify the strong bonding type between particles in each of the following substances as ionic, covalent or metallic. a Carbon dioxide b Iron(III) chloride c Silicon dioxide d Brass d Ammonia d Calcium oxide					
2	 Consider the following three substances. a Complete and label the diagram to show the particles present. b Name the bonding that holds the particles together. c Bonding is all substances is due to electrostatic attraction between particles. Identify the types of particles that attract one another. 					
	Sodium	Sodium chloride	Chlorine, Cl ₂			
	0000		8			
	Bonding:	Bonding:	Bonding:			
	Electrostatic attraction between	Electrostatic attraction between	Electrostatic attraction between			

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3	exist becomes followed a Grant	type of strong bonding will between the atoms of the bunds formed in the on of elements from the ing groups? Troup 2 and group 17 Troup 13 and group 16 Troup 16 and group 17		
4	An ionic compound has the formula Z_3X . Elements Z_3 and Z_3 could be found in which groups of the periodic table?			
5	Nitrogen, from group 15, forms a compound with an element X, from group 17. Give a likely formula of this compound.			
6	Potassium telluride has the ionic formula K_2 Te. Without consulting a periodic table, suggest the group of the element tellurium.			
7	Draw electron dot diagrams to represent the transfer of electrons and the number of atoms required to produce calcium phosphide from calcium and phosphorus.			
8	Draw electron dot diagrams of the following molecules: a NH ₃ b SO ₃ c CO ₂			
9	the first particle listed is larger than (the second particle.		•	rmine whether the atomic/ionic radius of ne size (=) or smaller than (<) the radius of Second particle Sulfide ion (S ²⁻)
	b	Hydrogen ion (H ⁺)		Hydrogen atom (H)
	C	Chloride ion (Cl ⁻)		Fluoride ion (F ⁻)
	d	Magnesium atom (Mg)		Aluminium atom (Al)
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