

## NATURE OF SALT – STUDENT WORKSHEET

PROPERTY	SODIUM (Na)	CHLORINE (Cl)
Atomic Weight		
Atomic Number		
Periodic Table Group Number		
State / color at room temperature (optional)		
Cation (+) or Anion (-)		
Atomic radius (nm or $10^{-9}$ m)	0.186	0.099
What is the chemical formula for sodium chloride?		
What is the size ratio between sodium and chlorine ions? (Approx.)		

<b>NATURE OF SALT - ANSWER KEY</b>		
<b>PROPERTY</b>	<b>SODIUM (Na)</b>	<b>CHLORINE (Cl)</b>
Atomic Weight	22.98977	35.4527
Atomic Number	11	17
Periodic Table Group Number (any acceptable)	1 or IA or 1A	17 or VIIA or 7A
State / Color at room temperature (optional)	Solid / silvery grey	Gas / green
Cation (+) or Anion (-)	Cation (+)	Anion (-)
Atomic radius (nm or $10^{-9}$ m)	0.186	0.099
What is the chemical formula for sodium chloride?	NaCl	
What is the size ratio between sodium and chlorine ions? (Approx.)	0.186 : 0.099 or about 2 : 1	