

Worksheet #1 - Monatomic Ions

1. sodium	Na	<u>sodium ion</u>	<u>Na⁺</u>
2. bromine	Br	bromide ion	Br ⁻
3. magnesium	Mg	magnesium ion	Mg ²⁺
4. chlorine	Cl	chloride ion	Cl ⁻
5. oxygen	O	oxide ion	O ²⁻
6. boron	B	_____	_____
7. lithium	Li	lithium ion	Li ⁺
8. neon	Ne	_____	_____
9. phosphorus	P	phosphide ion	P ³⁻
10. aluminium	Al	aluminium ion	Al ³⁺
11. Calcium	Ca	calcium ion	Ca ²⁺
12. iodine	I	iodide ion	I ⁻
13. nitrogen	N	nitride ion	N ³⁻
14. cesium	Cs	<u>cesium ion</u>	Cs ⁺
15. sulfur	S	sulfide ion	S ²⁻
16. fluorine	F	fluoride ion	F ⁻
17. potassium	K	potassium ion	K ⁺
18. barium	Ba	barium ion	Ba ²⁺
* 19. hydrogen	H	hydrogen ion hydride ion	H ⁺ H ⁻
20. helium	He	_____	_____

Simple Binary Ionic Compounds

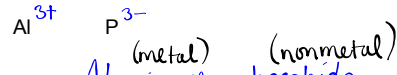
Ionic compounds are formed by the combination of a cation and an anion and are electrically neutral. Binary compounds are compounds that contain only two elements.

Examples:



name - Sodium chloride

chemical formula - NaCl



name - Aluminum phosphide

chemical formula - AlP



name - Sodium oxide

chemical formula - Na₂O



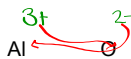
name - Aluminum chloride AlCl₃

chemical formula - AlCl₃



name - Magnesium phosphide

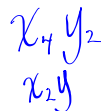
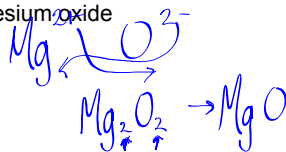
chemical formula - Mg₃P₂



name - aluminum oxide

chemical formula - Al₂O₃

magnesium oxide



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Attachments

Science 10 - Grade 9 Chem Topics.docx

Science 10 - Grade 9 Chem - What Do You Know.docx

Science 10 - Activity - Molecular Models.docx

Science 10 - Answer Key - Ions and Subatomic Particles.pdf