Poly	vato	mic	Ions
	uco	11110	10113

Name	KEY	Per
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<u>Polyatomic ions</u>. "poly" means <u>many</u>. Ions are particles with a positive or negative charge. So polyatomic ions are groups of (many) two or more atoms that have a charge. The *group as a whole shares the charge*. Most polyatomic ion's names end in "-ate" some end in "-ite". Only a few end in "-ide". Most polyatomic ions are negative.

1. Look up the following polyatomic ions Write down the formula (including the charge):

ammonium NHu +	acetate CH3COO	carbonate 03
dichromate Crao	hydroxide OH	nitrate NO3
oxalate C2O4-2	sulfate 504	phosphate PO4
permanganate	nitrite NO	cyanide CN
sulfite $50_3$	hydrogen carbonate HCC	)3

2. What is common about  $\underline{most}$  of the names of the polyatomic ions?

end in "ate" or "ite"

3. What element do most of the polyatomic ions have in the formula?

## oxygen

- 4. What type of elements are found in the polyatomic ions? (metal nonmetal)
- 5. Look up the following polyatomic ions Write down the name.

SO<sub>4</sub><sup>2</sup> Sulfate

NO<sub>2</sub><sup>-</sup> Nitrite

CIO; Chlorate

Iodate

co<sub>3</sub><sup>-</sup> Carbonate

Bro; bromate