For monatomic ions see p 67,98,99 of the text

(Chemistry: A Molecular Approach, 4th ed., N. J. Tro 2017).

You must know the names, formulas, spellings of all of these polyatomic anions.

The red ones are especially important and serve as a basis for other related ions.

"Hydrogen" anions $(HPO_4^{2-}, HCO_3^{-}, etc.)$ follow a systematic pattern of naming and charges derived by adding H^+ to the base anion from the table below.

CO ₃ ²⁻ carbonate	NO ₂ ⁻ nitrite NO ₃ ⁻ nitrate		
	PO ₃ ³⁻ phosphite PO ₄ ³⁻ phosphate	SO ₃ ²⁻ sulfite SO ₄ ²⁻ sulfate	ClO ⁻ hypo <i>chlor</i> ite ClO ₂ ⁻ <i>chlor</i> ite ClO ₃ ⁻ <i>chlor</i> ate ClO ₄ ⁻ per <i>chlor</i> ate
	AsO ₃ ³⁻ arsenite AsO ₄ ³⁻ arsenate	SeO ₃ ²⁻ selenite SeO ₄ ²⁻ selenate	BrO ⁻ hypobromite BrO ₂ ⁻ bromite BrO ₃ ⁻ bromate BrO ₄ ⁻ perbromate
			IO hypoiodite IO2 iodite IO3 iodate IO4 periodate
OH hydroxide	CN - cyanide	Cr ₂ O ₇ ²⁻ dichromate	NH ₄ ⁺ ammonium
SH - hydrogen sulfide	SCN - thiocyanate	MnO ₄ permanganate	Hg ₂ ²⁺ mercurous or mercury(I)
		CH₃COO⁻ acetate	