

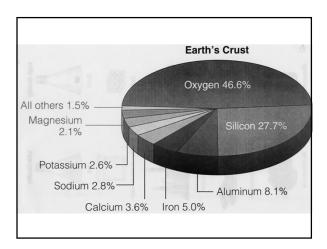


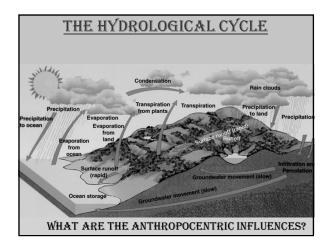
Of the 103 known chemical elements 24 are required by organisms

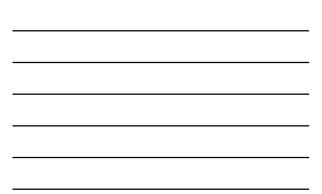
## Macronutrients

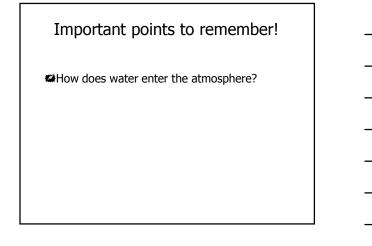
elements required in large amounts for all life

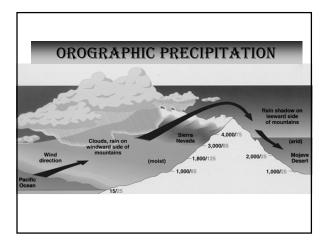
The Big Six fundamental building blocks of life

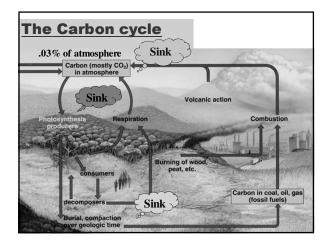




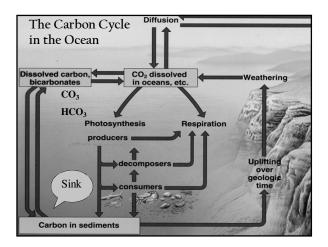




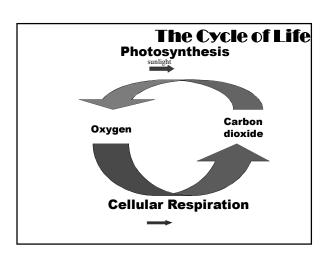






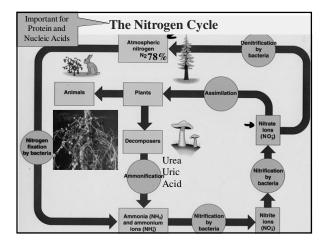








How	have	we	altered	the	carbon	cycle?





Human Impacts to the Nitrogen Cycle
<sup>⊗</sup> N <sub>2</sub> O from inorganic fertilizers
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