

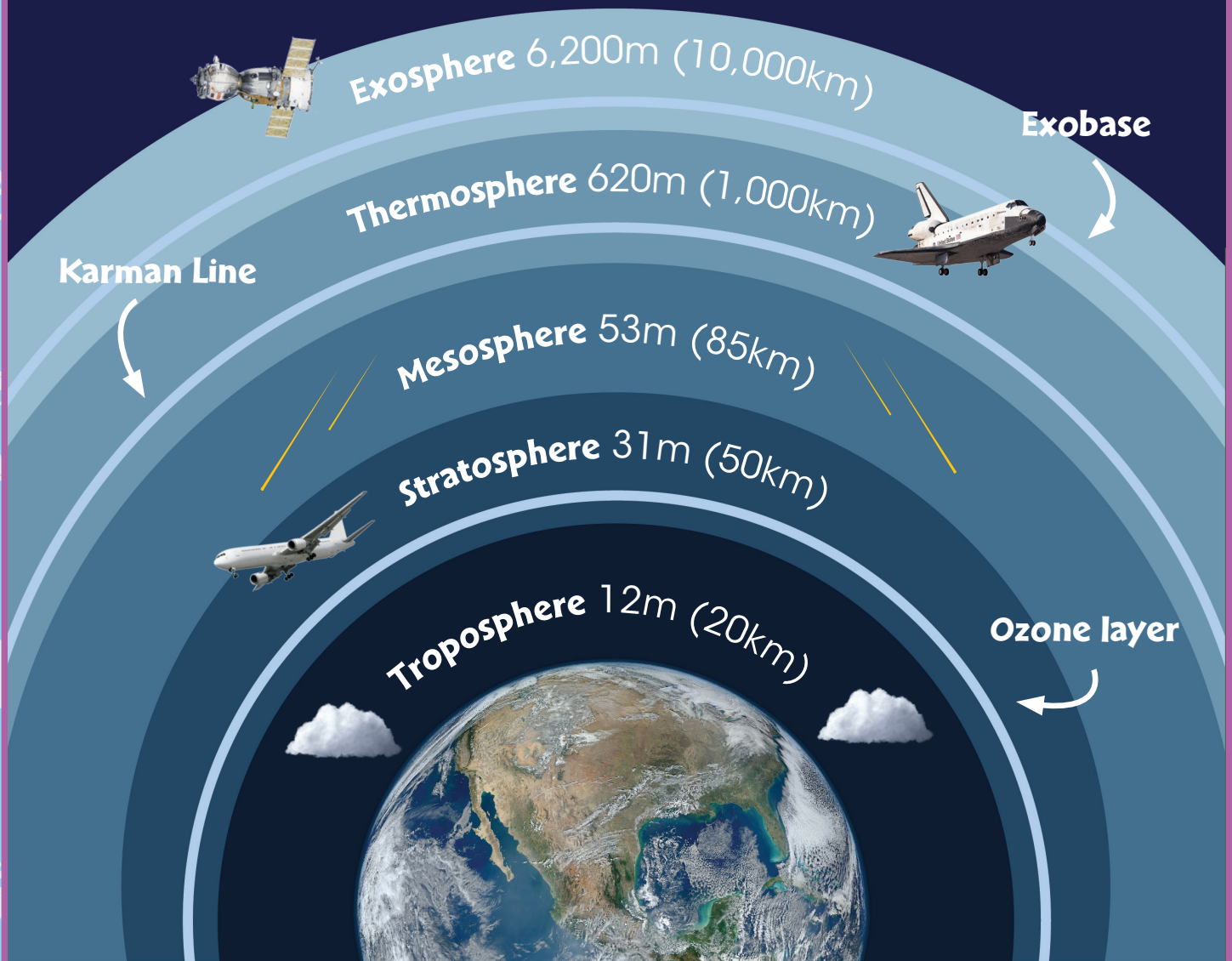
Earth



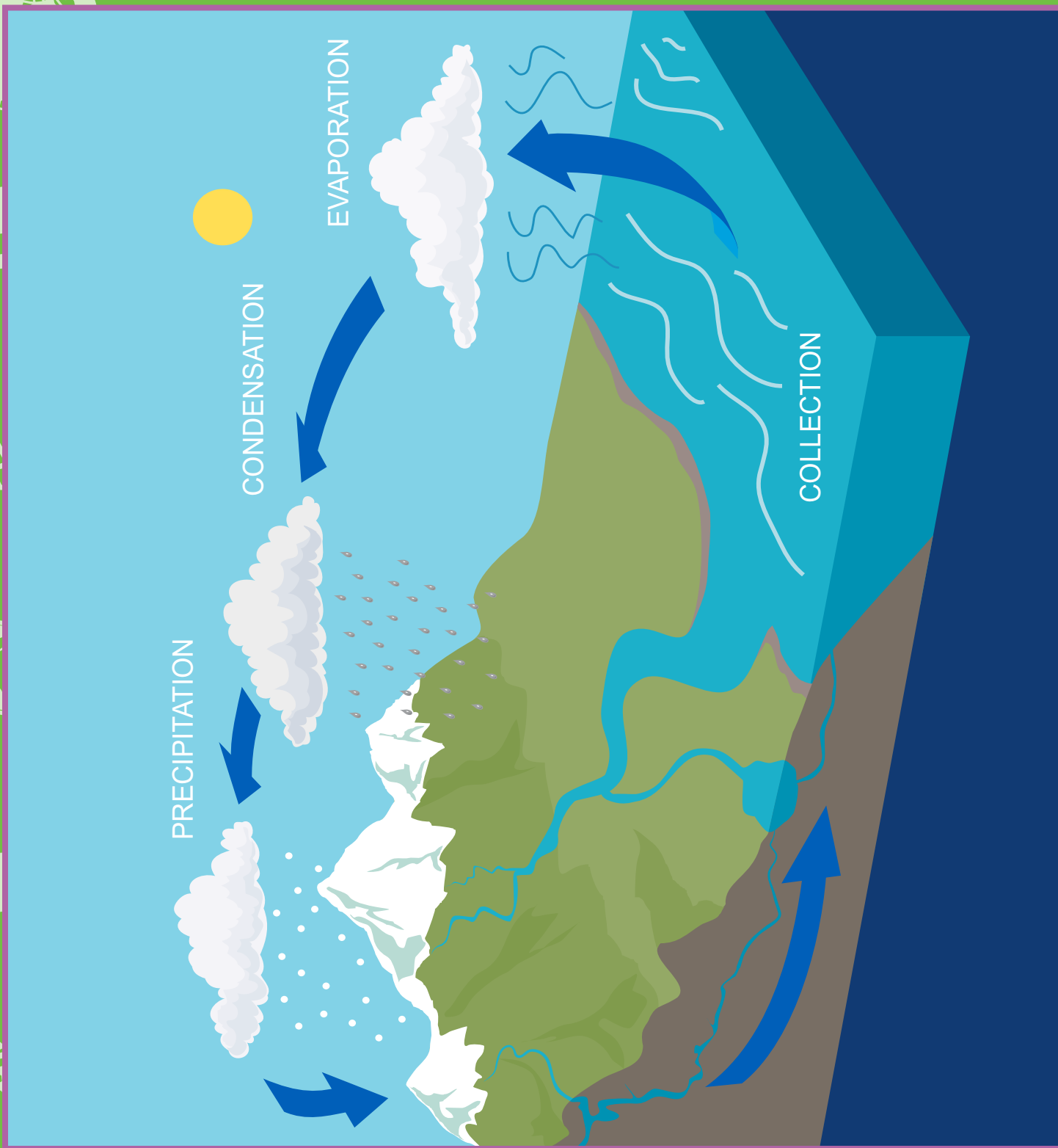
“The atmosphere is the glowing blue ring around Earth, and the white areas of Earth are clouds and ice caps that reflect the most radiation from the Sun.”

Layers of the Atmosphere

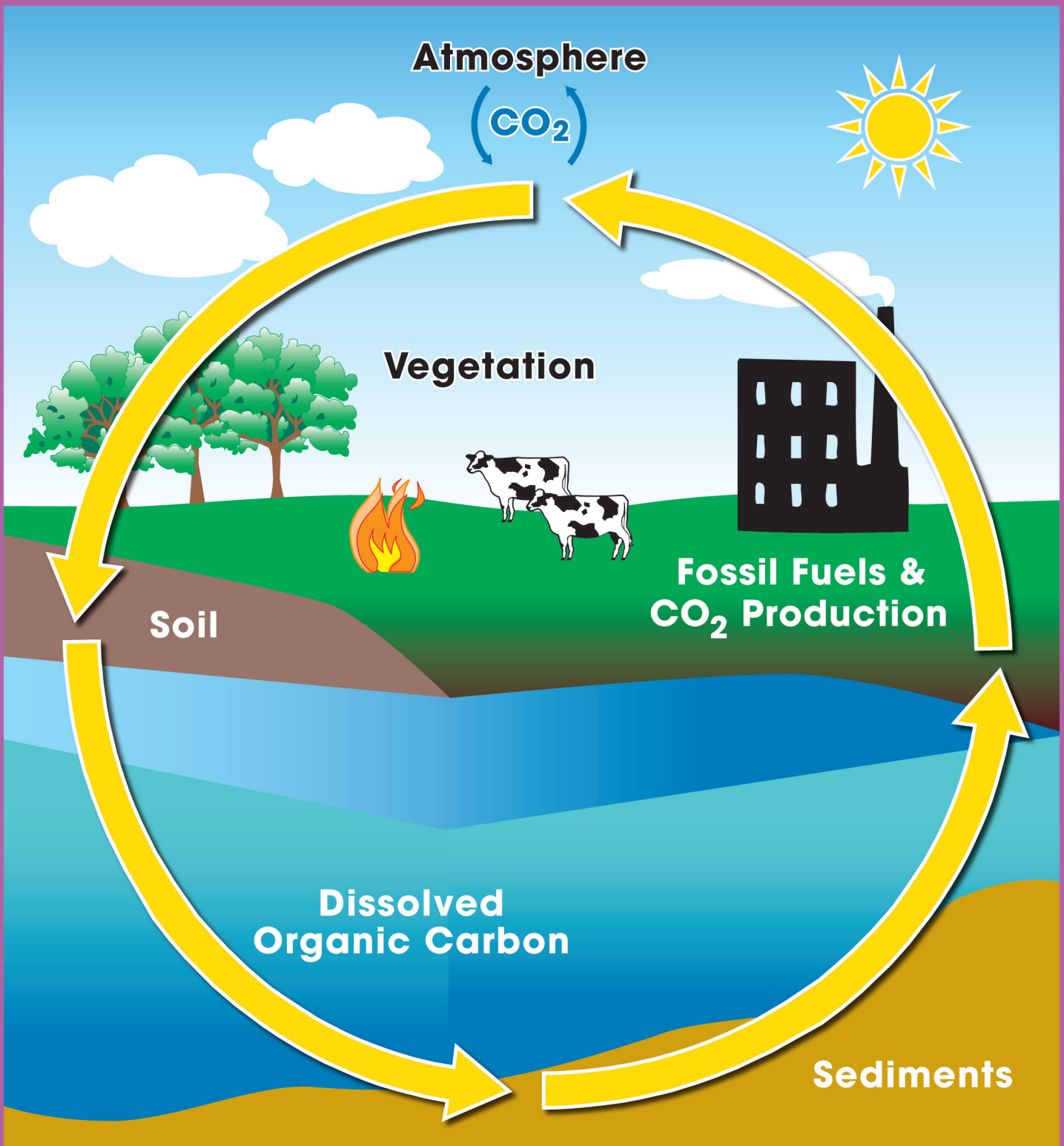
The Earth's Atmosphere



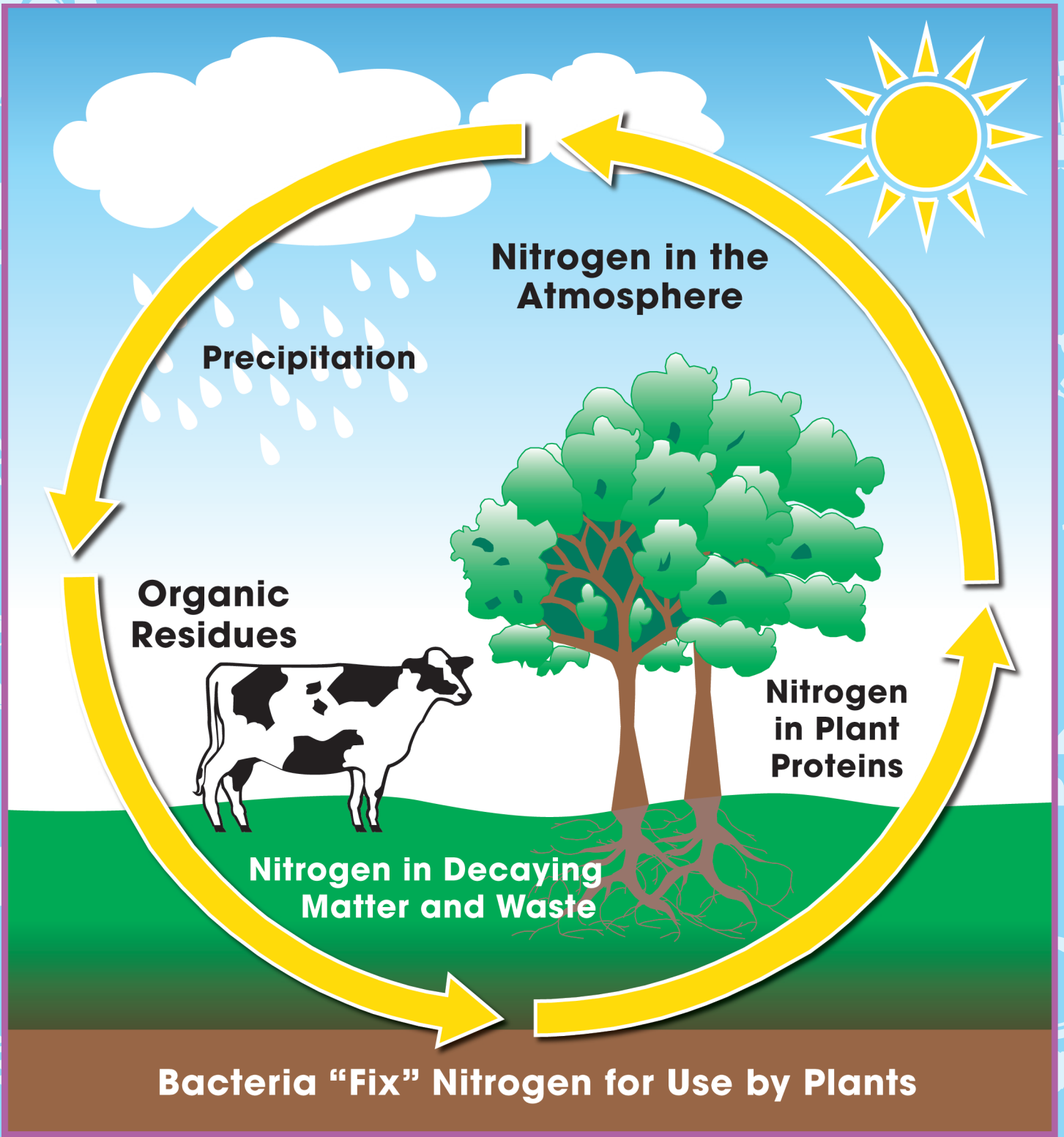
The Water Cycle



The Carbon Cycle



The Nitrogen Cycle



Greenhouse Gas Concentrations with Residence Times



Type of Gas	Concentration		Residence Time in Atmosphere	
	Year 1750 Levels	Current Levels		Difference
Carbon Dioxide Gas (Parts per million)	280	399	+42%	~ 100 to 300 years
Methane Gas (Parts per billion)	722	1834	+154%	12 years
Nitrous Oxide Gas (Parts per billion)	270	328	+22%	121 years
Tropospheric Ozone Gas (Parts per billion)	237	337	+42%	hours to days
Chlorofluorocarbon Gases CFC-11 CFC-12 (Parts per trillion)	0 0	232 516	+100% +100%	45 years 100 years