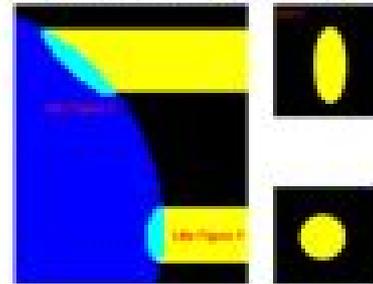


Regents Earth Science – Unit 7: Weather

Weather – the condition of the atmosphere for a location at a given time

- caused by unequal heating from the sun
- the uneven heating of the Earth's surface through the seasons heats some parts of the world more than others – this heat energy is distributed from warm regions to cold regions by **convection**



The sun's energy is far more concentrated near the equator than it is near the poles – this is why equatorial regions are warmer

Atmosphere

Atmosphere – the 4 layers of gases that surround the Earth

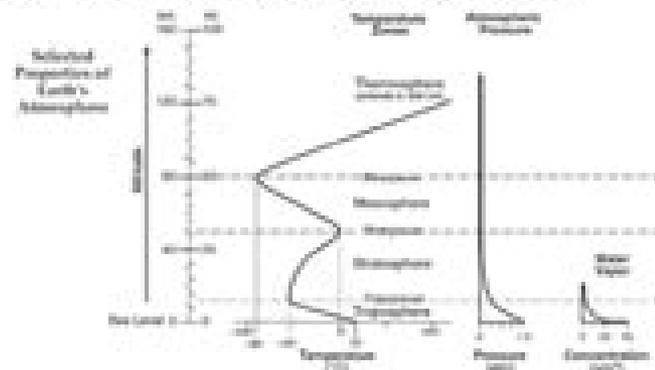
- composed of 78% nitrogen, 21% oxygen, and small amounts of other gases
- Earth's atmosphere has 4 distinct layers – called **spheres** (determined by temperature differences)
 - Troposphere** – the bottom layer, where we live, contains over half of the air molecules, is the only layer with "weather"
 - Stratosphere** – 2nd layer from Earth, where planes fly, contains the *ozone layer*
 - Mesosphere** – 3rd layer from Earth, ionosphere is here
 - Thermosphere** – top layer, few molecules, the beginning of space
- the interface (boundary) between layers is called a "**pause**" and determined by where the temperature trend changes

Average Chemical Composition of Earth's Crust, Hydrosphere, and Troposphere

Element (Symbol)	CRUST		HYDROSPHERE	TROPOSPHERE
	Percent by mass	Percent by volume	Percent by volume	Percent by volume
Oxygen (O)	46.10	44.04	86.1	21.0
Silicon (Si)	28.20	2.88		
Aluminum (Al)	8.25	0.46		
Iron (Fe)	5.65	0.40		
Calcium (Ca)	4.75	1.14		
Sodium (Na)	2.60	1.10		
Magnesium (Mg)	2.35	0.33		
Phosphorus (P)	2.08	1.40		
Nitrogen (N)				78.0
Hydrogen (H)			88.0	
Other	0.81	0.27	1.0	1.0

Reference Tables p. 1

- Note:** air pressure decreases as altitude increases, and the troposphere is the only layer that contains water vapor (weather occurs here)



Reference Tables p. 14

Weather Earth Science In Action

John Michels (Journalist)



Weather Earth Science In Action:

Resources in Education ,1999-10 **School Library Journal** ,2002 *Science Scope* ,2002 Library Journal ,2001
Media Review Digest C. Edward Wall,2003 *Voice of Youth Advocates* ,1983 Earth Science: Weather, water, and the atmosphere James A. Woodhead,2001 Presents cross referenced essays on basic topics related to planetology and Earth from space each essay includes an annotated bibliography **Changing Earth. Earth Science in Action. Teacher's Manual and Workbook** Susan Kaschner Jagoda,Mary Friedland,1984 Grade level 1 2 3 4 5 6 7 8 p e i s Recording for the Blind & Dyslexic, ... Catalog of Books ,1996 **The Earth's Weather, Or Meteorology** John Henry Wayman,1924
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