

Weather Watch

Lesson 1—Atmosphere

The cover features a large, stylized blue cloud at the top. Inside the cloud, the text 'Weather Watcher's REGISTER' is written. 'Weather Watcher's' is in a white, rounded, sans-serif font with a thin black outline, while 'REGISTER' is in a larger, bold, black, sans-serif font. Below the cloud, a bright yellow lightning bolt strikes downwards. Scattered around the lightning bolt and cloud are several light blue raindrops and small, grey, six-pointed snowflake icons. The entire illustration is set against a plain white background.

Weather
Watcher's
REGISTER

Name: _____

1 Our amazing atmosphere

The **atmosphere** surrounds our earth with a layer of gases.

The **atmosphere** contains 78% nitrogen, 21% oxygen, and small amounts of other gases.

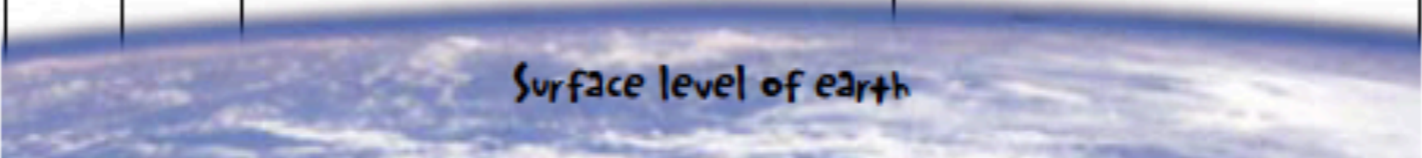
The **atmosphere** of Earth is about 800 miles (1,280 km) thick. There is no exact place where the atmosphere ends.

The **atmosphere** insulates us against the extreme heat and cold of space.

The **atmosphere** provides the air we breathe.

The **atmosphere** blocks much of the ultraviolet radiation coming from the SUN.

Height		Earth's atmospheric layers	
Miles	Km		
800	1280	EXOSPHERE	These two layers are often called the <i>thermosphere</i> . The International Space Station and many satellites find their orbit in the thermosphere.
400	640	IONOSPHERE	
50	80	MESOSPHERE	Where meteoroids burn up.
31	50	STRATOSPHERE	Ozone layer is near the top end. Airliners fly near the bottom end. High clouds are here, too.
4.5 to 11	7 to 18	TROPOSPHERE	Where we live—along with many of the clouds.



Surface level of earth

The oftener and more diligently you peruse the Scriptures, the more beautiful will they appear, and the less relish you will have for light and superficial reading. The daily study of the Scriptures will have a sanctifying influence upon the mind. You will **breathe a heavenly atmosphere**. Bind this precious volume to your heart. It will prove to you a friend and guide in perplexity. {Lt1 a-1861.8}