Unit: 3. EARTH'S ATMOSPHERE

VOCABULARY

albedo ability of a material to reflect solar radiation

altitude height above the earth's surface

barometer instrument used to measure air pressure

carbon-oxygen

cycle

describes how carbon and oxygen are exchanged and

recycled on Earth

carbon monoxide a colorless, odorless, poisonous gas

conduction the transfer of heat between two stationary entities

process of heat transfer by the circulation or movement of a

liquid or a gas

Coriolis effect a circular pattern of winds created by Earth's rotation

cyanobacteria single-celled photosynthetic bacteria

Earth's energy

budget

the balance between the amount of energy coming in from

the Sun and going back out into space

the sub-layer of the thermosphere where the atmosphere exosphere

blends into space

gamma rays shortest and strongest wavelengths of solar radiation

humidity moisture in the air

hydrocarbon wasted, unburned fuel given off as a gas

ion an electrically charged atom

ionosphere a sub-layer of the thermosphere containing ions

iand breeze tool breeze that circulates indiriand to sea	land breeze	cool breeze that circulates from land to sea
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latent heat heat released when water vapor condenses

the layer of the atmosphere just above the stratosphere;

burns up most meteors

mass of stone or metal that has passed through the

atmosphere and struck the earth's surface

meteoroid mass of stone or metal traveling through space

Milankovitch cycles predictable variations of Earth's orbit and tilt that can affect

climate

a gas produced at high temperatures by combining nitrogen

and oxygen

ozone a molecule composed of three oxygen atoms; absorbs UV

radiation

ozonosphere a region in the upper stratosphere where ozone is

concentrated

photosynthesis process by which plants use chlorophyll and energy from

sunlight to manufacture food from carbon dioxide

pollution waste substances not ordinarily found in the atmosphere that

affect Earth's natural cycles

pressure weight or force upon something

radiation transfer of heat or energy through rays of various

wavelengths

the process by which oxygen combines with food to release respiration

energy and carbon dioxide

sea breeze cool breeze that circulates from sea to land

layer of the atmosphere just above the troposphere where

the temperature remains fairly constant

sulfur oxide	a gas produced when sulfur impurities in fuel burn by combining with oxygen
thermosphere	layer of the atmosphere above the mesosphere where temperatures are the highest in the atmosphere
troposphere	layer of the atmosphere nearest the earth where most weather changes occur
Van Allen radiation belts	radiation belts surrounding Earth that protect us from harmful radiation of the Sun