

METEOROLOGY

The atmosphere, the Sun, radiation, cloud formations, air masses & fronts, global weather patterns & forces, severe weather, optical phenomena, and more

THE ATMOSPHERE

Gas Composition

- The atmosphere is composed mainly of nitrogen, an odorless, colorless gas
- Oxygen is the next most abundant element, with other gases represented only in trace amounts
- The atmosphere is a fluid; it has no set shape and moves easily when acted upon by external forces

Description of Composition

- There are two ways to describe the composition of the atmosphere:
 - By the weight of the constituents
 - By their volume

Principal Gases in Dry Air	
Constituent	Percent by Volume
Nitrogen	78.084
Oxygen	20.946
Argon	.934
Carbon dioxide	.034
Ozone	.000004
Water vapor	~4.0*

*Water vapor is a variable gas, whereas the others are more permanent

Possible Originations

- The Earth has what is known as a **secondary atmosphere**, or an atmosphere created after the formation of the planet
- The large gas planets (Jupiter, Saturn, Uranus, and Neptune) are entirely made of gas; Jupiter has a **primary atmosphere**, or an atmosphere that originated with the formation of the planet
- There are two hypotheses for the formation of the Earth's atmosphere:
 - Outgassing:**
 - When the Earth formed, it was a giant spinning ball of molten lava
 - As it cooled, gases trapped in the lava were "belched" up by large volcanoes
 - The combination of these outgassed vapors and the biological transformation of the chemistry of the atmosphere by hundreds of millions of years of plant growth gave us our contemporary atmosphere
 - This hypothesis is more widely accepted

Comet Impacts:

- A comet is a giant clump of frozen water and gases
- If many large comets struck the Earth several billion years ago, they could have left a residue of water, carbon dioxide, oxygen, and other gases that eventually collected into the atmosphere

Levels of the Atmosphere



- Because the density of the atmosphere decreases exponentially with altitude, 99% of the atmosphere is within the first 20 miles of the Earth's surface

Troposphere

- The lowest level of the atmosphere
- Named in 1908 by Léon Teisserenc de Bort, it means "the region where air turns over"
- The layer in which most of the clouds and weather phenomena occur
- Has two layers:
 - The layer that touches the Earth is called the **boundary layer** and is about 5-10 miles high at the equator
 - The troposphere's upper limit is called the **tropopause** and varies in height with both season and location
- In the troposphere, temperatures decrease with altitude; this is called a **lapse rate:**
 - This rate averages out to be -6.5°C for every kilometer
 - In the tropopause, the temperature does not change with height

- The layer of the atmosphere that exists between 12-31 miles above the Earth's surface
- The temperature in the stratosphere increases with height because the **ozone layer** is located here; when temperatures increase with height, it is called an **inversion:**
 - The ozone layer absorbs ultraviolet radiation from the Sun (see **Heat Transfer & the Greenhouse Effect**, p. 2, and **Ozone**, p. 6)
 - There has been a decrease in the ozone layer due to chlorofluorocarbons (CFCs) and other man-made and natural chemical processes
 - Scientists have found that ice crystals, due to the extremely low temperatures of this region, can also deplete ozone, but research is ongoing in this area

Mesosphere

- The layer of the atmosphere above the stratosphere
- The temperature in the mesosphere begins to fall, often reaching the **coldest temperatures** of any part of the atmosphere:
 - This cold region extends from 31-56 miles above the Earth's surface, and its temperature can reach -100°C

Thermosphere

- The layer of the atmosphere above the mesosphere
- It starts about 56 miles above the Earth's surface
- Here, again, the temperature begins to rise with altitude:
 - This is because the atmosphere in this region, while very thin, allows particles to move at extremely high speeds
 - Temperature is the average kinetic energy of the particles; since the particles are moving so fast, the temperature is very high in this layer

Ionosphere

- The layer within both the thermosphere and mesosphere in which there are enough ionized particles to affect the transmission of radio signals:
 - Radio signals bounce off the ionosphere to extend their range past the horizon
 - This effect is stronger at night when the Sun's radiation does not affect the ionosphere
- Ionized particles are atoms or molecules that have more electrons than protons, making them negatively charged, or more protons than electrons, making them positively charged
- Begins about 37 miles above the Earth's surface and extends upward
- Reflects long-wavelength, low-energy radio signals (like AM radio) back to Earth but allows short-wavelength, high-energy radio signals (like FM radio) to pass through into space

THE SUN, HEAT, TEMPERATURE & RADIATION

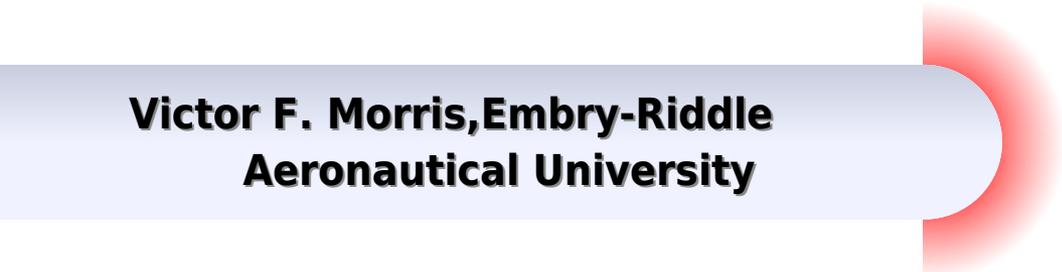
The Earth's Tilt & the Seasons



- As it orbits around the Sun, the Earth spins on its axis, which is tilted with respect to the Earth-Sun orbital plane, not perpendicular to it:
 - The North Pole does not point directly up and down as the Earth spins but rather is inclined at 23.5° with respect to the orbital plane
- As the Earth orbits the Sun, in a near-circular path called an ellipse, it remains at the same angle and pointing in the same direction; this tilt means that during a certain time of the year, the **Northern Hemisphere** is pointed toward the Sun more than the **Southern Hemisphere:**
 - During this period, the Northern Hemisphere receives more direct sunlight than the Southern Hemisphere and therefore becomes warmer; this is summer in the Northern Hemisphere and winter in the Southern Hemisphere; the first day of summer for the Northern Hemisphere is called the **summer solstice**, which has the most day-light hours of the year:
 - On or around June 21, the Sun's most direct perpendicular rays are hitting the Earth at 23.5° N latitude, the Tropic of Cancer; this is the farthest north the perpendicular rays will be

Meteorology Study Guide

**Victor F. Morris, Embry-Riddle
Aeronautical University**



Meteorology Study Guide:

The book delves into Meteorology Study Guide. Meteorology Study Guide is a crucial topic that needs to be grasped by everyone, from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Meteorology Study Guide, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:

- Chapter 1: Introduction to Meteorology Study Guide
- Chapter 2: Essential Elements of Meteorology Study Guide
- Chapter 3: Meteorology Study Guide in Everyday Life
- Chapter 4: Meteorology Study Guide in Specific Contexts
- Chapter 5: Conclusion

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lab 7 mitosis and meiosis lab 7 mitosis amp meiosis 10 studocu - Sep 27 2022

web exercise 2 a are the four daughter cells of meiosis genetically identical or different from one another explain your answer describe the daughter cells of your meiosis model what color and how many of each color beads were present in each of the four daughter cells the four daughter cells of meiosis are not genetically identical

meiosis lab the laboratory of recombination and segregation - Dec 19 2021

web meiosis lab the laboratory of recombination and segregation analysis recombination and segregation of chromosomes and genes in meiosis is the main source of genetic diversity in populations the purpose of the research carried out in the laboratory of recombination and segregation analysis of the institute of cytology and genetics of the

activity modeling meiosis with pop beads sharpschool - Oct 29 2022

web materials 60 red beads 60 yellow beads 4 magnetic centromeres dry erase board desk dry erase marker eraser procedure answer all questions in your journals please 1 create four homologous chromosomes using the red beads for the paternal chromosome and the yellow beads for the maternal chromosome

chapter 11 lab modeling meiosis mr evans biology class - May 24 2022

web problem how does meiosis increase genetic variation introduction most cells in organisms that reproduce sexually are diploid they have two sets of chromosomes and two complete sets of genes gametes are an exception gametes are the cells that combine during sexual reproduction in animals these cells are called sperm and eggs

2 2 3 lab modeling meiosis dry lab the living earth sem 1 - Feb 01 2023

web the answer is meiosis cells in reproductive organs undergo meiosis as they divide to form germ cells that mature into gametes egg cells or sperm cells this diagram compares the processes of mitosis and meiosis in this descriptive lab you will model meiosis that begins in a cell of the fruit fly *Drosophila melanogaster* you will use

mitosis and meiosis lab pre lab questions what are studocu - Sep 08 2023

web a in meiosis I homologous chromosomes separate while in meiosis II sister chromatids separate meiosis II produces 4

haploid daughter cells but meiosis i produces 2 diploid daughter cells crossing over only occurs in meiosis i why do you use non sister chromatids to demonstrate crossing over a

[meiosis cell division biology article khan academy](#) - Mar 22 2022

web how meiosis reduces chromosome number by half crossing over meiosis i meiosis ii and genetic variation introduction mitosis is used for almost all of your body s cell division needs

lab 3 mitosis and meiosis escience labs studocu - Aug 27 2022

web lab 1 intro to science escience lab cell cycle mitosis meiosis what are chromosomes made of compare and contrast mitosis and meiosis both mitosis and meiosis are involved in making new cells

[6 4 meiosis teacher s preparation notes biology libretexts](#) - Dec 31 2022

web jul 11 2023 students use model chromosomes to simulate the processes of meiosis and fertilization as they model meiosis and fertilization students follow the alleles of three human genes from the parents body

[7 3 modeling mitosis and meiosis activity biology libretexts](#) - May 04 2023

web mar 23 2021 simulate mitosis move the chromosomes through each of the four stages of mitosis draw and label the pop bead chromosomes for one of the phases on a separate sheet it is not necessary to draw each individual bead draw a large circle on the paper to represent the cell and the nucleus with a pencil

lab 8 the modeling and microscopic observation of mitosis and meiosis - Mar 02 2023

web after completing this lab exercise you should be able to identify and describe the stages of the cell cycle mitosis and meiosis recognizing the events that occur during each stage distinguish between mitosis and cytokinesis as they take place in animal and plant cells