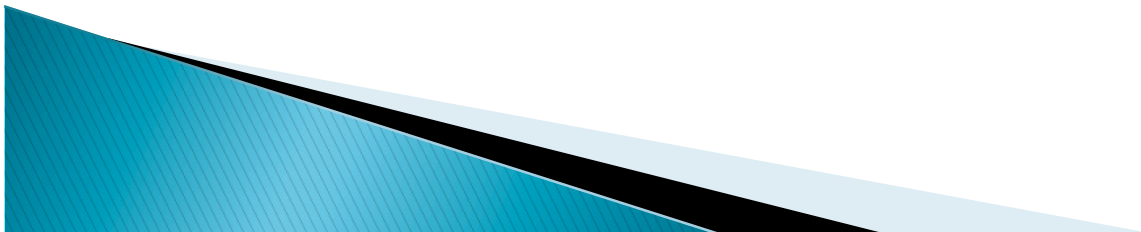


# Do Now (5 min)

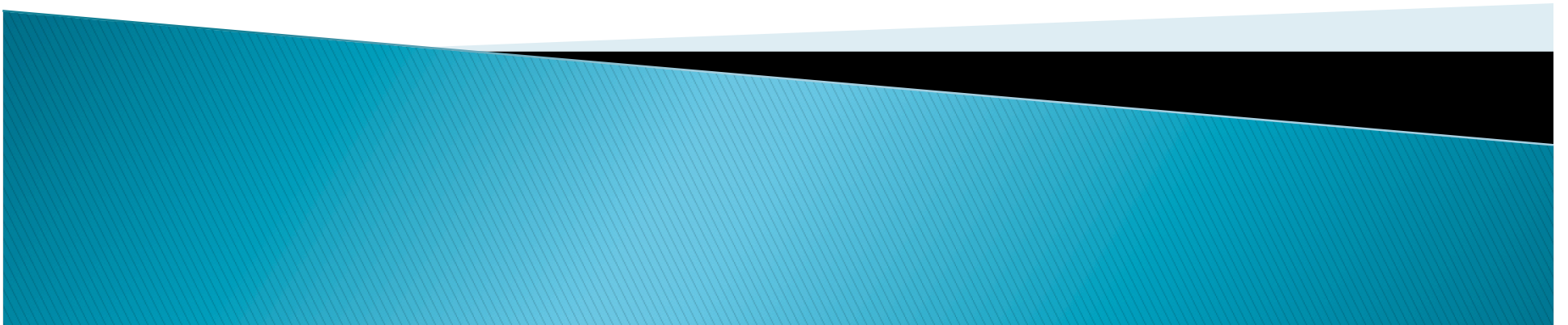
## 12-8-10

- ▶ Why do you think anyone ever thought to study Anatomy: (the parts of the body) and Physiology: (the functions of the body parts)?



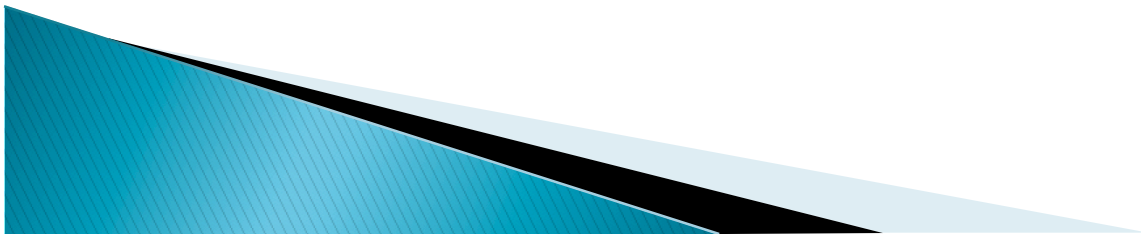
# Introduction to Anatomy and Physiology

12-8-10



# Agenda

1. Do Now (5 min)
2. Objectives (3 min)
3. Historical Roots of Anatomy and Physiology (8 min)
4. What is Anatomy and Physiology? (5 min)
5. Characteristics of Human Life (5 min)
6. Needs of Organisms (5 min)
7. Closing (5 min)
8. Exit Slip (5 min)
9. Participation Grades (5 min)



# Objectives (3 min)


- ▶ Content (The objectives you'll master today)

- ▶ **SWBAT:**

- 1. Explain the historical roots of A&P*
- 2. Explain how peoples thinking about treating illness changed from Ancient to Modern times*
- 3. Define Anatomy and Physiology*
- 4. Explain how the form of body parts relates to their function*
- 5. List and explain the 10 characteristics of human life*
- 6. List and explain the 5 needs of all human organisms*

- ▶ Language (How you will master the objectives)

- ▶ **By:**

- 1. taking notes on the PowerPoint presentation*
  - 2. reviewing notes on the PowerPoint presentation*
  - 3. writing notes from the PowerPoint presentation*
  - 4. taking notes on the PowerPoint and discussing with a partner*
  - 5. making observations about humans*
  - 6. discussing with classmates and taking notes on the PowerPoint*
- 



# Historical roots of Anatomy and Physiology

## (8 min)

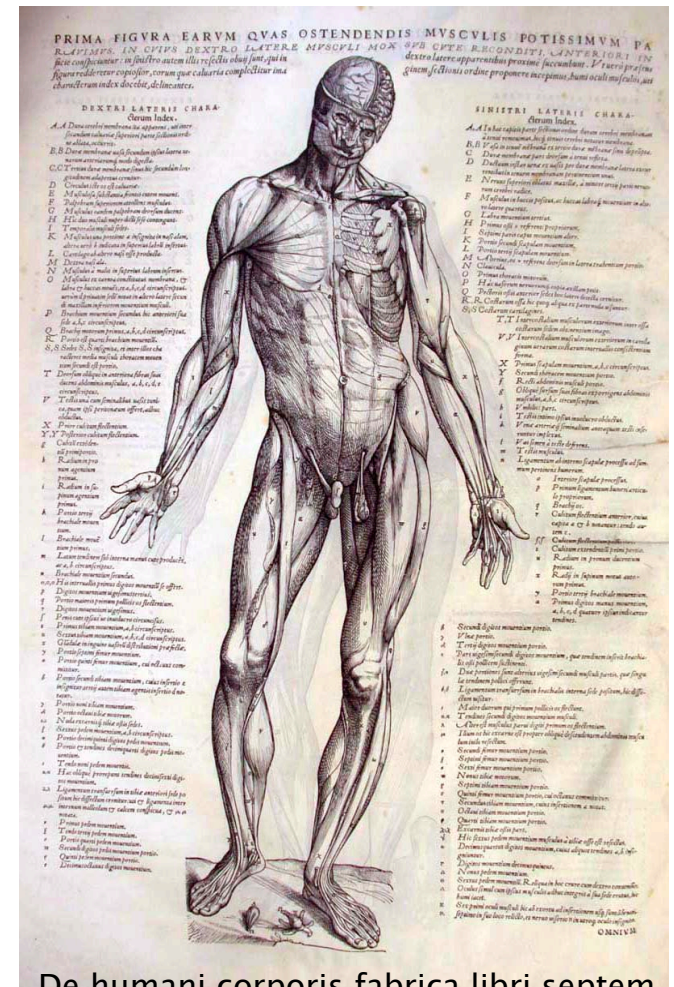
Objective: SWBAT: *Explain the historical roots of A&P by taking notes on the PowerPoint presentation.*

### Ancient Times

–people got ill/injured → prayed to spirits/ super natural forces for health

### Modern Times (2500 years ago ~ 500 BC)

–people got ill/injured →  
–went to a primitive doctor →  
–primitive doctors prescribed treatments→  
–primitive doctors notices how treatments affected patients→  
–recorded how specific treatments affected specific parts of humans→  
–doctors experiment to figure out more precise treatments



De humani corporis fabrica libri septem  
(On the fabric of the human body in seven books) is a textbook of human anatomy written by Andreas Vesalius (1514–1564) in 1543

# Historical roots of Anatomy and Physiology

## (5 min)

Objective: SWBAT: *Explain how peoples thinking about treating illness changed from Ancient to Modern times by reviewing notes on the PowerPoint presentation.*

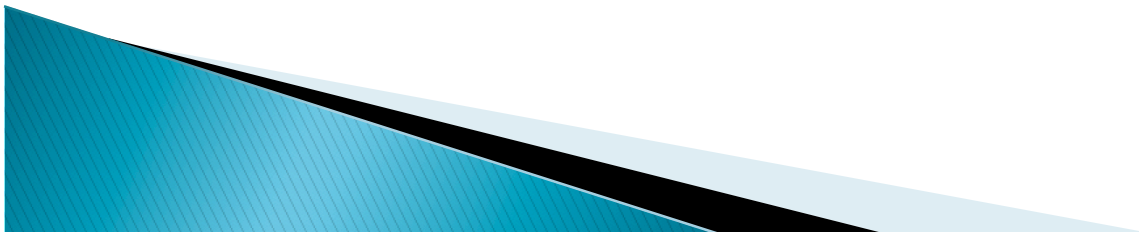
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How did  
peoples  
thinking  
about treating  
illness change  
from Ancient  
to Modern  
times?



# What is Anatomy and Physiology? (5 min)

Objective: SWBAT: *Define Anatomy and Physiology by writing notes from the PowerPoint presentation*

Anatomy: (the branch of science that deals with the structure/ form of body parts)

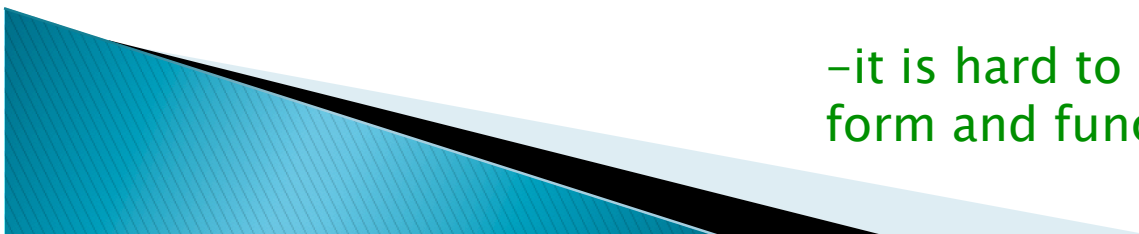
–the form/arrangement of body parts

Physiology: (the branch of science that deals with the function of the body parts)

–what the parts do/how they do it

Human Organism: (the sum total of a persons anatomy and physiology)

–it is hard to separate these topics because form and function are so closely related



# What is Anatomy and Physiology? (5 min) I/W

Objective: SWBAT: *Explain how the form of body parts relates to their function by taking notes on the PowerPoint and discussing with a partner.*

How does the anatomy (the forms) of the following body parts relate to their physiology (function)?

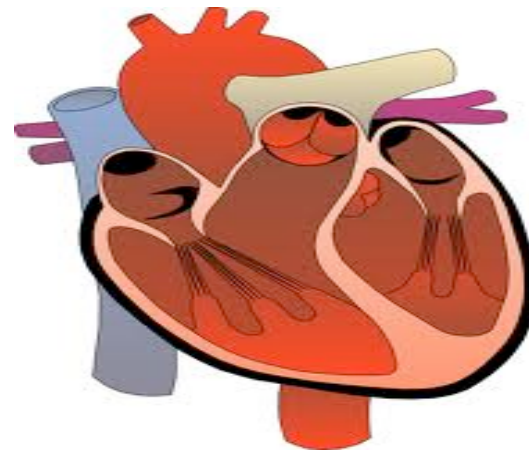


Anatomy: Jointed  
finger

Physiology: able to  
grab

Anatomy: fingers had  
one joint

Physiology:



Anatomy: Hollow  
chambers of heart  
Physiology: blood can  
flow through

Anatomy: Chambers  
are small

Physiology:

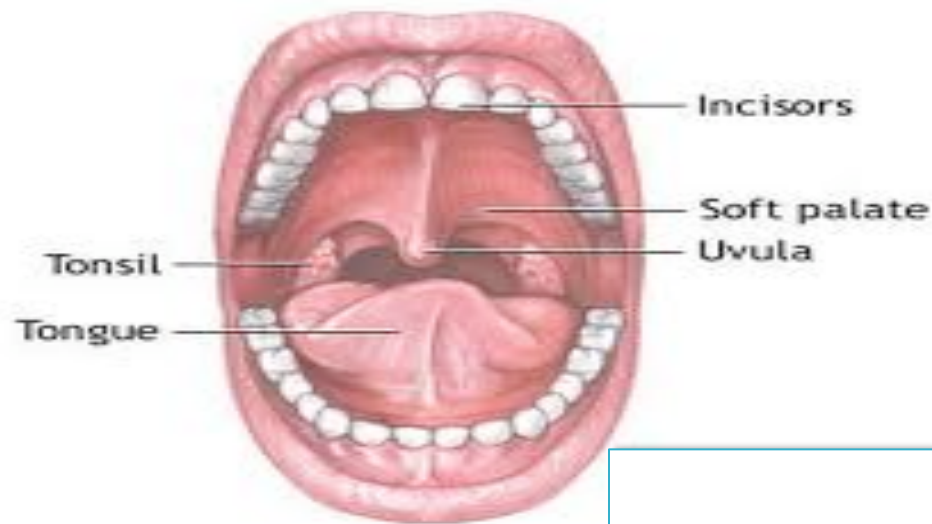


# What is Anatomy and Physiology? (5 min)

Y

Objective: SWBAT: *Explain how the form of body parts relates to their function by taking notes on the PowerPoint and discussing with a partner.*

How does the anatomy (the forms) of the following body parts relate to their physiology (function)?



Anatomy: Shape of mouth

Physiology: good for receiving food

Anatomy: Shape of teeth

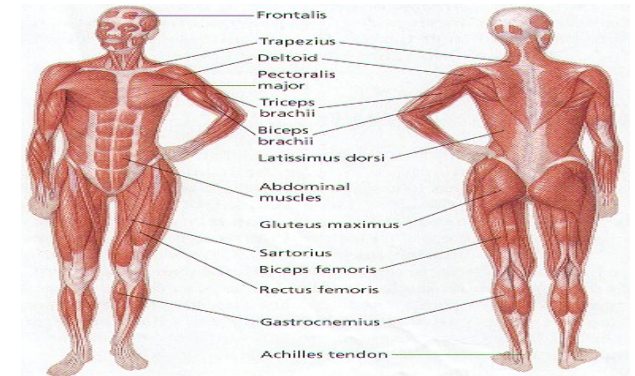
Physiology: good for chewing

Anatomy: round teeth

Physiology:

# Characteristics of Human Life (5 min)

Objective: SWBAT: *List and explain the 10 characteristics of human life by making observations about humans*

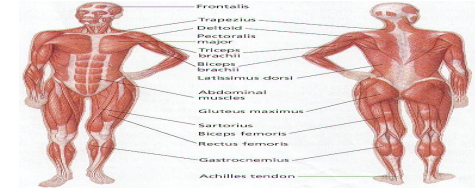


1. **Movement:** changing positions by self, internal motion
2. **Responsiveness:** sense changes in/outside body
3. **Growth:** increase in body size
4. **Reproduction:** producing offspring/cell division
5. **Respiration:** obtaining oxygen
6. **Digestion:** food is chemically changed into simpler usable forms
7. **Absorption:** passage of substances through membranes
8. **Circulation:** movement of substances from place to place
9. **Assimilation:** the changing of absorbed substances into forms that are chemically different
10. **Excretion:** the removal of wastes

**To do all of these things, what does a human organism need?**

# Needs of Organisms (5 min)

Objective: SWBAT: *List and explain the 5 needs of all human organisms by discussing with classmates and taking notes on the PowerPoint*



**To do all of these things, what does a human organism need?**

## Water

Most abundant substance on earth, needed for almost all metabolic: (body processes) processes

## Food

Substance that provides body w/ necessary chemicals

## Oxygen

Gas that makes up 1 / 5 of ordinary air, used to release energy from food

## Heat

A form of energy, product of metabolic processes,

## Pressure

The weight of air pressing on the body, needed for breathing, blood pressure



# Closing (5 min)

## ► Did you master the following objectives?

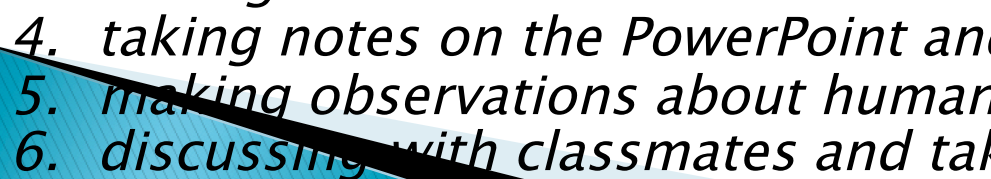
Content (The objectives you'll master today)

### SWBAT:

- 1. Explain the historical roots of A&P*
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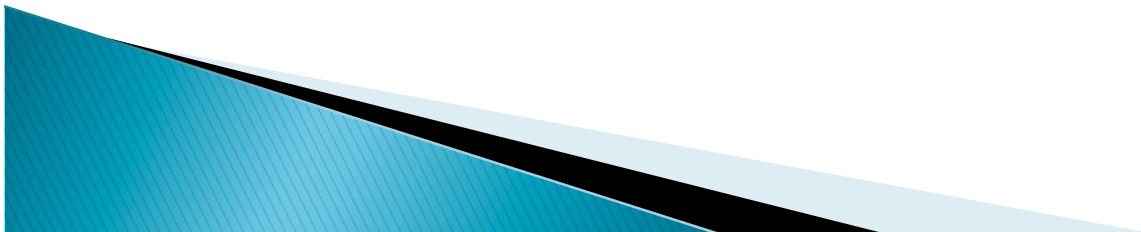
Language (How you will master the objectives)

### By:

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  - 5. making observations about humans*
  - 6. discussing with classmates and taking notes on the PowerPoint*
- 

# Exit Slip (5 min)

- ▶ On a separate sheet of paper, write your **NAME, DATE,** and **BLOCK** at the top. Today is 12-8-10 ☺
- ▶ Then number your paper and write responses to the following questions.
  1. What are some events that led to the study of A&P
  2. How did ancient people vs. more modern people think about treating illness?
  3. How is the form of the hand related to the function of the hand
  4. What are three characteristics of life, and what are two needs of life?



# Participation Grades (5 min)

- ▶ Each day YOU will decide the grade you deserve...Though, I reserve the right to change these.
- ▶ Your 5-point daily participation grade is based on CLA's core-values:
  - ▶ CLA Students are S.M.A.R.T.
    - ▶ S = Self-Controlled
    - ▶ M = Motivated
    - ▶ A = Accountable
    - ▶ R = Respectful
    - ▶ T = Timely
  - ▶ One point for each core-value
    - ▶ (5 points possible each day)
- ▶ What do you deserve today?

