Body System:
Team Members:

Body System Project

Working with your ***team***, you will ***research*** an assigned body system, ***create a slide presentation***, ***draw a diagram*** of the system, and ***present to the class***. You will have a few class periods to work on this and all team members will be responsible for contributing to each part of the project.

Research

You will receive guidelines for your assigned body system. It is expected that you will use the textbook and *at least* 2 other internet resources to gather the necessary information. Be sure to keep track of any websites you use. Use the guidelines as a starting point, but feel free to add additional information.

Slide Presentation

The **content** is the most important aspect of your presentation. Begin by typing your text onto slides. Once all of your information has been typed in, then you can spend time adjusting slide backgrounds, pictures, fonts, etc.

For each slide:

- Explanations should be in your own words (do not copy and paste).
- Check spelling and accuracy.
- Do not "clutter" the slide-each slide listed below could be split into multiple slides.
- Include at least one graphic on each slide (with source cited).

Slide Topic 1: Title Slide

- Name the body system.
- List the authors of the presentation (team member names).

Slide Topic 2: Major Organs

- List the major organs of the body system.
- Give a simple explanation of the function of each organ.

Slide Topic 3: System Function and Interactions

- Explain the function/role of the body system.
- Describe how the body system interacts with other body systems.

Slide Topic 4: Problems and Diseases

- Explain problems that can occur with this system, including diseases/disorders that are associated with this system.
- Describe scientific/technological advances that have been developed to deal with these problems

Slide Topic 5: Staying Healthy

- Describe what people can do to keep this system healthy.

Slide Topic 6: Resources

- List at least 3 information resources, 1 of which should be the textbook (graphics websites should be listed under each graphic).
- List entries alphabetically by author (if no author, list title first)
    - General format:

Author, last name first. "Webpage title." *Website title*. Date published/updated. Organization/publisher. Date accessed. < URL >

Example:

Landsberger, Joseph. “Citing Websites." *Study Guides and Strategies* . 12 May 2005. University of X. 13 May 2005. < http://www.studygs.net/citation.htm >.

Diagram

You will be given a large sheet of paper with a body outline, on which you should hand-draw and label a diagram of your assigned body system.

- Name the Body System at the top.
- Credit the source of your diagram information (website or book) under the name of the system.
- Draw each major organ in the appropriate location.
    - Draw in pencil first.
    - Outline in marker and color in.
- Neatly label each organ.
    - Use a ruler.
    - Label in pencil first. Make sure your labels are large enough to read from a distance, neat, and spelled correctly.
    - Go over your labels in marker.
- If something (blood, food, oxygen, etc.) follows a path through the system, indicate the path that it takes.
- List team member names in the bottom, left corner.

Presentation

You will share your diagram and the information from your slides with the class. Speaking should be divided fairly among group members. The rest of your class will be gathering information about your body system from your presentation, so make sure it is clear and accurate.

Team Work

This is a group project in which all team members are accountable. You will be asked to rate yourself and your team members in the areas of Contributions, Time Management, Attitude, and Work Quality.

Circulatory/Cardiovascular

- Be sure to include:
    - Heart
    - Blood vessels
        - Arteries
        - Veins
        - Capillaries

    - Blood Components
        - Red blood cells
        - White blood cells
        - Platelets
        - Plasma

- Describe the path that blood flows through your body

Digestive

- Be sure to include:
    - Gastrointestinal (GI) Tract
        - Mouth
        - Pharynx
        - Esophagus
        - Stomach
        - Small intestine
        - Large intestine/Colon
        - Rectum
    - Liver
    - Pancreas
    - Gallbladder

- Describe the path that food takes through your body, starting with the mouth and ending with excretion out of the body.

Respiratory

- Be sure to include:
    - Mouth
    - Nose
    - Pharynx
    - Larynx
    - Epiglottis
    - Trachea
    - Lungs
    - Diaphragm

- Describe the path that air takes through the respiratory system beginning with the mouth and ending in the lungs.

Excretory

- Be sure to include:
    - Urinary/Renal System
        - Kidneys
        - Urinary Bladder
        - Ureter
        - Urethra
    - Lungs
    - Liver
    - Skin

Muscular

- Be sure to include:
    - Biceps
    - Oblique abdominis
    - Sartorius
    - Deltoid
    - Orbicularis oculi
    - Sternomastoid
    - Gastrocnemius
    - Pectoral
    - Temporalis
    - Gluteus maximus
    - Quadriceps
    - Tibialis
    - Masseter
    - Rectus abdominis
    - Triceps

- Describe the function and locations of each type of muscle
    - Skeletal muscle
    - Smooth/Visceral muscle
    - Cardiac muscle

- Describe what tendons are

Skeletal

- Be sure to include:
    - Cranium
    - Clavicle
    - Humerus
    - Scapula
    - Sternum
    - Rib
    - Vertebra
    - Ulna
    - Radius
    - Carpals
    - Metacarpals
    - Phalanges
    - Pelvis (may list parts)
    - Femur
    - Patella
    - Tibia
    - Fibula
    - Tarsals
    - Metatarsals

- Describe the difference between:
    - Bones
    - Ligaments
    - Tendons

- Describe each of the following joints and where they are located:
    - Hinge
    - Pivot
    - Ball-and-socket

Nervous

- Be sure to include:
    - Brain
    - Sensory organs:
        - Ears
        - Eyes
        - Taste Buds
        - Nose
        - Skin
    - Spinal cord
    - Nerves
    - Neurons

- Describe the difference between
    - Central nervous system
    - Peripheral nervous system

- Describe the path a nerve impulse travels throughout your body from stimulus to response