

Name: _____

The Human Body – Grade 5 Project

Learning Outcomes

- describe the basic structure and functions of the human respiratory, digestive, circulatory, skeletal, muscular, and nervous systems
- explain how the different body systems are interconnected
- identify variables that can be changed in an experiment
- evaluate the fairness of a given experiment
- describe the steps in designing an experiment

Tasks

Part 1: create a **labeled diagram** that lists/names all the important parts/organs in your body system.

Part 2: create a **glossary** that gives definitions of all the important parts/organs in your body system. Each definition should include the purpose or function of each part or organ.

Part 3: create a **web** (with your body system in the middle) that shows the functions of your body system. This means to list all the things your body system does for our bodies. The web should also show the other body systems that are connected to and rely on your body system.

Part 4: read the results of an experiment that was focused on your body system (this will be provided to you by Mr. Gregory). Your job will be to answer the following questions (on a sheet provided to you by Mr. Gregory): what were the variables in the experiment? what are two other examples of variables that **could have been** used in the experiment? was the experiment fair? if not, what part was not fair? What changes would make the experiment more fair?

Part 5: create a review quiz for your body system. The quiz should have 5 multiple-choice questions (each with 3 incorrect answers and the one correct answer) and 2 questions that require a short written answer.

What to do for each step:

Part 1: - to find an example of a labeled diagram for your body system, look in: the science text book, Mr. Gregory's posters, or on the internet - make a rough copy of your labeled diagram on an unlined sheet paper (make sure you label all the important parts or organs - show your rough copy to Mr. Gregory - for the good copy, you can print off a copy of the human body and paste it on an unlined sheet of paper or just draw it by hand - be sure to use a ruler to draw neat, straight lines when labeling the parts or organs

Part 2: - find a list of all the important parts or organs for your body system in the text book - find definitions for all these parts or organs, focusing on what purpose they serve for your body system (what job do they do) - title a page 'glossary' and complete a rough copy with all the words and their definitions - show your rough copy to Mr. Gregory - if time permits, you can type a good copy out on the computer. Otherwise, you can print/handwrite a good copy of the glossary on a line sheet of paper

Part 3: - begin creating a rough copy of a web on an unlined piece of paper by putting a circle in the middle of the page with your body system printed in it - draw boxes around the circle in the middle

and connect them - each box should describe something your body system does for the body (e.g., one thing the respiratory system does is bring oxygen into the body) – other boxes should describe other body systems that are connected to your body system and how they rely on each other (e.g., the respiratory system brings oxygen to the circulatory system, which inserts it into the blood) - show your rough copy to Mr. Gregory - if you have time, for the good copy you can type out the words and paste them onto your good copy paper. Otherwise, you can just print/handwrite out the words

Part 4: - read the experiment example given to you by Mr. Gregory on your body system - answer the questions at the end

Part 5: - begin writing your multiple choice and short answer questions – make a rough copy of all your questions, complete with an answer key - show your rough copy to Mr. Gregory - if time permits, you can type a good copy out on the computer. Otherwise, you can print/handwrite a good copy of the questions on a lined sheet of paper

* 5 questions can be fact type questions, where you can find the answer by looking in the text book. You should think of three 'close', but wrong questions (don't put silly answers), and then put the one correct answer

For example:

#1 – What is the name of the tube that oxygen travels down to get to your lungs?

A – lung tube

B- esophagus

C- trachea

D- air tunnel

* 2 questions should make a person write a short answer. For example:

What are three types of blood vessels? _____

* You must provide an answer key with your test!