

# Science 8: Cells and Systems

## Topic 5: Human Body Systems

Group member's names: \_\_\_\_\_

Class: \_\_\_\_\_

Date: \_\_\_\_\_

### Systems of the Human Body: Group Project

The human body is a complicated biological machine. Machines are often made up of smaller parts. Inside of you there are parts called **organs**. Some examples of the organs in your body are the heart, brain, lungs, kidneys and stomach. Although each organ has its own unique job, there are groups of organs that work together towards a common goal. These groups of organs are called a **body system**. There are six main body systems that you will be discovering in this topic: circulatory system, digestive system, respiratory system, nervous system, skeletal and excretory system. Each body system has its own job to perform within the body. Each organ in your body belongs to one of these systems. Each organ within that system has a specific task to perform.

- You will need to know what each body system does
- You will need to know which organs belong to each body system
- You will need to know what the job of each of those organs is
- One disease that affects your system and how it is treated
- What type of lifestyle would make your system the most healthy and why
- Symptoms of someone who's system you are researching is being damaged

### Key Systems:

- 1) Respiratory system: function of the system and its major organs, diseases and how to keep healthy
- 2) Digestive system: function of the system and its major organs, diseases and how to keep healthy
- 3) Circulatory system: function of the system and its major organs, diseases and how to keep healthy
- 4) Nervous system: function of the system and its major organs, diseases and how to keep healthy
- 5) Excretory system: function of the system and its major organs, diseases and how to keep healthy
- 6) Skeletal system: function of the system and its major organs, diseases and how to keep healthy

## **Timeline:**

1) As a group, you will need to decide who is completing which parts. There are 3 different parts and 1-2 people will be responsible for 1 part.

The 3 parts are:

- Powerpoint or Google slides presentation
- Life size visual
- Health and wellness

You will need to fill out the Assigned Task Contract.

2) Research your topic. You will be given a template to fill out that will guide you through finding the key information. Feel free to find some other interesting facts about your body system that will engage your audience.

3) Start creating a life-sized labelled poster and a visual presentation.

- Posters should present a life-sized version of the body system and its main function. The poster should also include labelled organs and their functions.
- The presentation (Google Slides, Prezi, etc.) should have large, high quality visuals with very little text (no more than one sentence per slide). Presentations should be about 5-7 minutes in length (10-15 slides).
- You will need to meet as a group to go through your presentation and know who's presenting what.

4) Presentations about each body system will begin.

- Each student in the audience can begin filling in their notes about the other systems during the presentations.
- You will then be brought up to the front of the class and as experts in your system you will have to diagnose a patient with symptoms to explain how your system would be affected

5) You will have one last opportunity to make sure that your notes are complete and that you know your stuff. In your groups you can study, quiz each other and compare notes. Be ready...the "Body Systems Quiz" comes next!

Assessment will include:

- Your presentation (oral and visual)
- Expert Doctor Panel
- A Body Systems Quiz
- Self/Group Collaboration