

Technology-enhanced Learning - Activity Plan

Name: *Irvin Smith*

Grade / Course: *Science and Technology*

Length of Activity: *60 minutes*

Lesson Summary:

Students will share their prior knowledge of the digestive system in response to a verbal scenario (5 minutes), watch an informative video about the digestive system while continuing the discussion (20 minutes) and use interactive sites to construct a virtual model of the digestive system and deepen their understanding (20 minutes); questions will be noted and responses given throughout the lesson. Then they will complete two interactive quizzes to select and label the parts of the digestive system (10 minutes). Transition time (5 minutes)

Lesson Objective:

To encourage curiosity and provide students with an opportunity to learn how their body system (digestive) functions, the parts involved and their roles.

Some critical questions;

If you were (name a food), can you describe your journey through the human body?

Is all food treated the same, as they move through the body?

What would determine how various foods are treated by the body?

Have you learnt something that you would like to share with your peers?

Is there any question in your mind at this point in the lesson?

Resources/Technology – Teacher

Computers

Online Resources

- [Digestive System Video](#) (controlled by teacher and broadcasted to students)

Resources/Technology – Students

Computer Lab

Worksheet

Printout of Learning Materials

Online Resources

- [Construct Virtual Model of Digestive System](#)
- [Quiz on Digestive System](#)

Intended Curriculum Learning Outcomes

- Students will :
 - Define the digestive system
 - List the main parts of the digestive system.
 - Identify the functions of the digestive system
 - Describe the function of each part of the digestive system
 - Construct a model of the digestive system

Instructional Activities

The teacher will ask probing questions and guide the discussion while simultaneously going through the video (pausing and playing at key points). After the initial response to the scenario question to spark discussion the objectives will be presented. Throughout the lesson, demonstrations will take place where deemed necessary or requested by the student/s.

The students will respond to each other and the teacher's probing questions and ask their own. They will use the interactive digital resources to explore content, acquire knowledge and reinforce their learning and construct as well as construct a virtual model of the digestive system.

Learner Assessment

Students will demonstrate and understanding of the content and process by completing two interactive quizzes: one in which they select the correct organ given the functions of the parts and another in which they simply label the parts of a diagram.

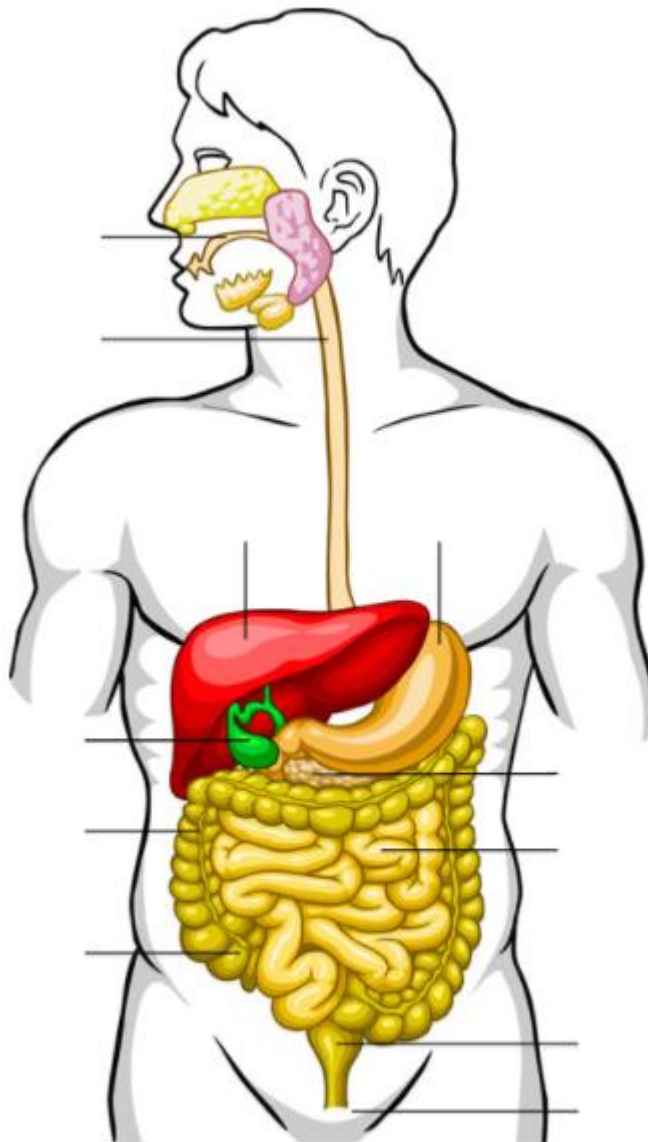
Future considerations and backup plan in the event that technology fails.

1. The video will be downloaded in advance of the class. All resources will be organised in the google classroom to be accessed by students.
2. An interactive chart of the digestive system will be available and mounted on the wall after the lesson if there is no need to use it during the lesson. The labels will be removed once a week so that the students can replace them correctly.
3. Worksheets will be printed for the students to fill in the blanks as well as match function to parts. If not used during the lesson, they will be placed in their activity centers to be used for future review and practice.
4. A link will be added on Edmodo and Google Classroom for the students to take a virtual tour of the digestive system as different types of food to gain an understanding of how the body treats food based on the type and nutrients contained. They will be invited to discuss their observations on Edmodo. The teacher will guide the virtual discussions and ask probing questions to encourage research and critical thinking. They will be asked to update their learning log(e-portfolio) which is shared with just the teacher.
 - a. [Download this file and open with a browser. Have fun.](#)
 - b. [The download also be found on the web here](#)

Science and Technology

Grade 5

Directions: Label the parts of the digestive system printed below.

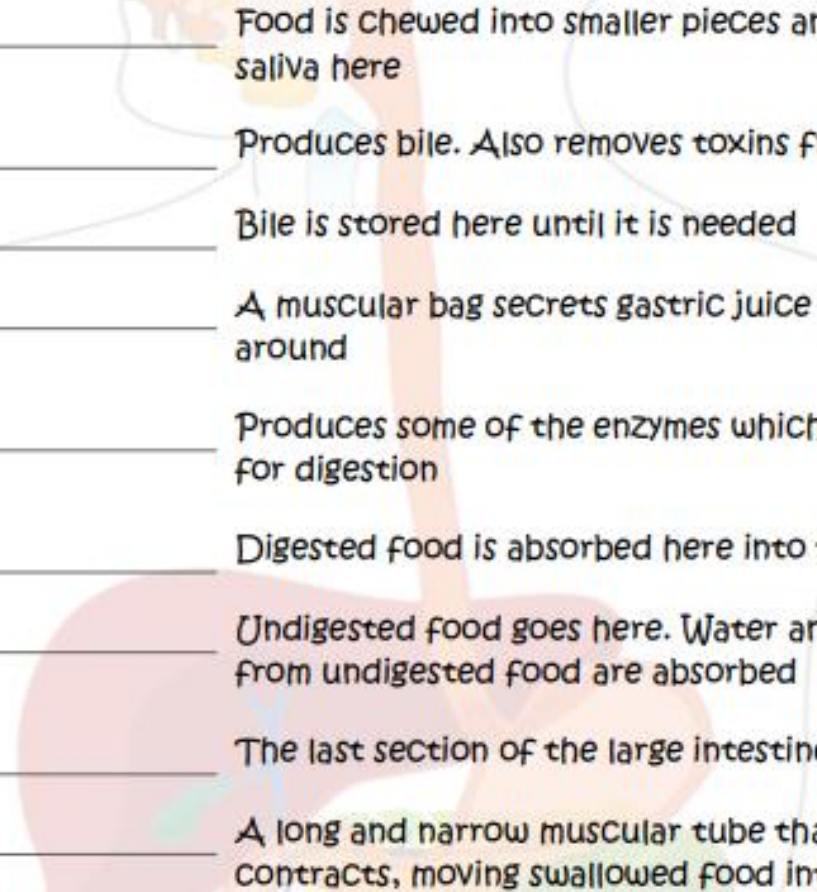


Name: _____

Date: _____

Parts of the Digestive System

Match the parts of the digestive system to their correct functions

- 
1. _____ Food is chewed into smaller pieces and mixed with saliva here
 2. _____ Produces bile. Also removes toxins from your blood
 3. _____ Bile is stored here until it is needed
 4. _____ A muscular bag secretes gastric juice and mixes food around
 5. _____ Produces some of the enzymes which are important for digestion
 6. _____ Digested food is absorbed here into the bloodstream
 7. _____ Undigested food goes here. Water and mineral salts from undigested food are absorbed
 8. _____ The last section of the large intestine
 9. _____ A long and narrow muscular tube that relaxes and contracts, moving swallowed food into the stomach

ESOPHAGUS
LIVER
MOUTH

PANCREAS
GALLBLADDER
STOMACH

RECTUM
LARGE INTESTINE
SMALL INTESTINE