

Digestion in the human body

WebQuest Description: This webQuest will allow students to be educated on the different processes of digestion in the human body.

Grade Level: 9-12

Curriculum: Science

Keywords: Ingestion, mastication, peristalsis, absorption, assimilation, egestion, enzyme, mechanical digestion and chemical digestion

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WebQuest URL: <http://zunal.com/webquest.php?w=377416>

Introduction

In order to start digestion you have to examine the processes that are involve in digestion and then we can move on to the entire digestive system. You are the explorers who are interesting in the digestive system and you should create a creative podcast explaining the processes involve in digestion.To complete the podcast you will have to follow the objectives in the task, process and the evaluation section. The completed podcast should be uploaded on the schoology site.

Tasks

In this WebQuest, you are required to make a jingle about the various processes of digestion using an audio recording(podcast). Students will watch videos and read information that explains the processes. By the end of this lesson, students will be able to:1. state the name of the digestive organs in which each process takes place. 2. Distinguish among ingestion, egestion and mastication in the digestive system. 3. Describe absorption and assimilation in the digestive system.4. Explain the differences between peristalsis and enzyme in digestion.5. Distinguish three differences between the mechanical and chemical breakdown of food.6. Upload the podcast on the schoology site.

Process

Phase 1:In groups of 4, you will be given different objectives which should be adhere to in order to attain the lesson goals.group 1Students from group 1 will complete objectives 1 and 2 by watching these videos. Click each video to view. video 1video 2video 3Group 2Students from group 2 will complete objectives 1 and 3 by watching these videos.Click each video to view. video 4Group 3Students from group 3 will complete objectives 1 and 4 by watching these videos. Click each video to view.video 5video 6video 7Group 4Students from group 4 will complete objectives 1 and 5 by watching these videos.Click each video to view.video 8Phase 2Now that you have examined the information, each group should compose their information in a jingle and record it using an audio recorder. After which you should upload the recording on the podomatic website that you would have created last class. Please ensure that the names of the group members are in the podcast.Phase 3 Each groups will upload the URL for their podcast on schoology for assessment. You will follow the rubric as a guide for this assessment in the evaluation section.

Evaluation

Your podcast will be evaluated by the criteria listed below. Please make every effort to obtain maximum scores in each category. Have fun creating your podcast.

Category and Score	Outstanding	Very good	Satisfactory	Unsatisfactory	Score
Explanation of processes	Students create a podcast that explain each process excellently.	Students create a podcast that explain each process very good.	Students create a podcast that explain each process satisfactory.	Students create a podcast that explain each process very poorly.	6 points
Digestive organs in which the process takes place	Students state all the digestive organs in which the given processes take place.	Students state most of the digestive organs in which the given processes take place.	Students state one of the digestive organs in which the given processes take place.	Students did not state the digestive organs in which the given processes take place.	4 points
Clear recording	Recording is excellently done and free from other noises.	Recording is well done and free from other noises.	Recording is satisfactory and has a little noise in the background.	Recording is not well done and there are noises in the background.	4 points
Creativity	Podcast is exceptionally creative.	Podcast is creative.	Podcast is missing creativeness.	Podcast is not creative.	4 points

Category and Score	Outstanding	Very good	Satisfactory	Unsatisfactory	Score
				Total Score	20 points

Conclusion

Congratulations! You have just completed a task of creating your first podcast on digestion in the human body. I want you to now reflect on what you have learnt and the process of completing this activity. Now that you have understand the processes that are involve in digestion, I want you to watch the video below to understand the entire process of digestion in the alimentary canal. video on digestion

Teacher Page

This web quest is about the different processes that are involved in the digestive system. This web quest was designed as a project for science students, grade 9 - 12.

Standards

ATTAINMENT TARGET:
 • Understand the importance of the life processes in plants and animals, their interdependence, their interaction with the environment, and how lifestyles determine health and well-being.
 • Apply scientific knowledge and processes to the solution of real world problems.
 • Demonstrate a positive attitude towards the use of scientific language.
 • Demonstrate positive interpersonal skills in order to foster good working relationships.
 BENCHMARKS:
 • Understand the intake, digestion and absorption of food in animals.
 • Appreciate the importance of scientific methods.
 • Demonstrate curiosity, objectivity and perseverance in their approach to scientific activities.
 • Demonstrate sensitivity to others who are different.

Credits

Credits Zunal.com for all the FAQ pages to help create web quest. Previous web quests for ideas. Teachers at my school for additional information. Youtube for the videos.

Other