

Digestion

WebQuest Description: This web quest seeks to provide essential background information on the process of digestion , the data presented on the site is geared towards enabling student to learn via guided discovery.

Grade Level: 9-12

Curriculum: Science

Keywords: Acid,gastric juice, stomach, mouth, absorpton, pancreas,esophagus,enzyme, nutrients, duodenum,teeth, chyme,bolus.

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WebQuest URL: <http://zunal.com/webquest.php?w=379647>

Introduction

Imagine you are in Burger King and someone walked by bouncing your burger from your hands, seeing that you are so traumatized by the lost of you burger , your friends decide to make up and buy you a new whopper Jr. After Taking your first Bite, place your self in the prospective of that bite of sesame seed bun and well seasoned beef, guide us through the process of digestion as it moves through the body.

Tasks

throughout the duration of this class you are expected to:1. Clearly define digestion,2. Be able to identify the various parts of the digestive system. 3.Be able to identify the function of the various parts of the digestive system. Additionally, briefly explain the process of digestion from the start to the end. Show understanding of the process of digestion as it involves 2 processes.*Mechanical digestion * Chemical digestionyour are to structure the information derived from the web quest showing the various parts of the body that each type of digestion takes pace at, also note all important organ structure and enzyme that is present at the site of the different type of digestion. use the table provided below to aid you in compiling the information.

Process

step 1visit the page provide in the link...Digestion definition and under the heading Digestion definition, read the paragraph and come up with a definition for the Term digestionAfter getting your definition visit the page in the link.....Digestion in the mouth to now get a definition of the term mechanical digestion, be sure to scroll down the page as the data continues.Using the table provided start filling out the columns of the different type of digestion that takes place in the mouth and the enzymes present.step 2go to the link provided and read the first paragraph, after which write a definition for the term chemical digestion.Now go to the link...digestive/upper-torso, page and use the interactive picture to hover over the different organs and start making your notes in your table .Once you have finish this step use the link..digestive/lower-torso. and complete the table with the different organs and enzymes in your table.step 3 To reinforced what you have learned as you were making your notes and filling out your table . Watch this small video then attempt the two tasks below.link...Digestive system summaryNow once you have completed the table, write a paragraph simply explaining the journey of your hamburger as you start with the first bite to the when it travels to the end of your digestive system.Additionally complete the series of question in the attachment below and hand it in along with your paragraph at the end of the class.

Evaluation

student was able to complete the table identifying the various areas of the the digestive track and the enzymes present there.-student was able to clearly define the term digestion-student was able to state where Mechanical digestion take place and give a definition.- student was able to state where Chemical digestion take place and give a definition.student was able to complete one section of the table.student did not complete the table.student downloaded the question sheet and a attempted the questions-student was able to answer all questions correctly-student answered least 7 of the questions correctly-student did not download the question sheet.student showed a clear understanding of the digestive system and could explain the processes in their paragraph of the hamburger digestion.-Student was able to state the process of digestion of the burger in the mouth only.-students was able to express a firm grasp of digestion down to the large intestine.-Student did not attempt to write the paragraph any at all.-Student wrote their paragraph and stated all the part of the digestive system.

Category and Score	unacceptable	Acceptable	Average	Target objective	Score
student was able to clearly define the term digestion	student did not complete the table.	student was able to complete one section of the table.	student was able to state where Chemical digestion take place and give a definition.	student was able to complete the table identifying the various areas of the the digestive track and the enzymes present there.	5
student is able to clearly identify and name the different parts of the small and large intestine.	student are unable to define any terms used in the class on the topic of digestion	student is able to state what areas the absorption of nutrients take place	student showed understanding that both Chemical and Mechanical digestion takes place in both the mouth and the stomach.	student was able to state where Mechanical digestion take place and give a definition.	5
student downloaded the question sheet and a attempted the questions	student did not download the question sheet.	student answered least 7 of the questions correctly	student answered least 3 of the questions correctly	student was able to answer all questions correctly	5
Student wrote their paragraph and stated all the part of the digestive system.	Student did not attempt to write the paragraph any at all.	students was able to express a firm grasp of digestion down to the large intestine,	Student was able to state the process of digestion of the burger in the mouth only.	student showed a clear understanding of the digestive system and could explain the processes in their paragraph of the hamburger digestion.	5
				Total Score	20

Conclusion

We take it that the student have completed the 40 Minute class session and have followed the web quest task given . Then the following question can be asked to summarize the lesson. Indulge student to see if they have left anything out of their paragraph, that is crucial to the process of digestion before collecting the papers.questions1.what is digestion?2.what is the differences between mechanical and chemical digestion?3.What is the purpose of the digestive system? 4. Are teeth important in this system? Why or why not? 5. After the food is swallowed, where does it go next? 6.List the fact you found most interesting or surprising in the digestion process?work sheet to carry home Questions: 1. How does saliva aid in the process of digestion? 2. Why is the epiglottis important? 3. How long is the small intestine? 4. What 3 organs help the small intestine during digestion? 5. List each organ involved in the digestive process and explain what each does.? 6. Name 2 ways to keep your digestive system in good shape?

Teacher Page

As a precursor to any science teacher who wishes to construct a web quest , do bear in mind that the content that the student will use to complete the task must be specific. That means a general website with all the information is too vague depending on the age group, ensure that the specific heading or column on the web page is given to narrow the students search , as the time frame for most lesson is 40 minutes.On a public serve like what is used in a public school, be vigilant and block social sites like Facebook, and twitter,etc (unless they are part of the web quest) to ensure that student stay on task instead of idling the class session. As a final note,Â be creative, do not limit the lesson to just student watching a YouTube video, try to find interactive websites that present the content in a unique and exciting way for the student to enjoy, ask the carry out class work.

Standards

The National Education Strategic Plan (NESP) 2011-2020 The Macro Strategic Objectives articulated in the NESP are: 1 Provide equitable access and/or attachment to a high quality education system for all Jamaican children ages 3-18. 2 Improve the standards and quality of Jamaicaâ€™s education system by establishing a robust accountability framework for all stakeholders by 2015. 3 Improve learnersâ€™ performance across the formal education system and the wider society to achieve universal literacy and at least 85% numeracy by 2015. 4 Provide a safe and secure physical environment which is conducive to learning for all learners in public education institutions by 2020. 5 Build partnerships with donors, private sector partners, the community, parents, employers, and those committed to creating a strong education system. 6 Provide a resource-rich environment supportive of all learners at all levels in the public education institutions by 2020.

Credits

References The Digestion Process (Organs and Functions) . Retrieved April 21, 2018, from https://www.medicinenet.com/the_digestion_process_organs_and_functions/article.htm Digestive System of the Head and Neck. (2015). Retrieved April 19, 2018, from <http://www.innerbody.com/image/dige01.html> Digestive System of the Upper Torso. Retrieved April 19, 2018, from <http://www.innerbody.com/anatomy/digestive/upper-torso> Digestive System of the Lower Torso. Retrieved April 21, 2018, from <http://www.innerbody.com/anatomy/digestive/lower-torso> [MEDICAL] 3D Anatomy & Physiology Animations : Digestive System. Retrieved March 19, 2018, from <https://www.youtube.com/watch?v=9PzANr8VyUg>

Other
throughout the duration of this class you are expected to: 1. Clearly define digestion, 2. Be able to identify the various parts of the digestive system. 3.Be able to identify the function of the various parts of the digestive system.4.Briefly explain the process of digestion from the start to the end. 5.Show understanding of the process of digestion as it involves 2 processes.Â *Mechanical digestion *Chemical digestion 6.To show the various parts of the body that each type of digestion takes pace at, also note all important organ structure and enzyme that is present at the site of the different type of digestion.Â