



Grade 5 Full-day Workshop: *Animal Digestive Systems*

OVERVIEW & PROGRAM GOALS

This educational program has been designed with the intention of providing curriculum links to the Grade 5 Understanding Life Systems: Human Organ Systems strand of **The Ontario Science and Technology Curriculum**. This exciting full-day workshop provides students and teachers the opportunity to explore the curriculum expectations outside the classroom. The main objective of this program is for students to:

- Develop an understanding of the structure and function of the digestive system through a comparative study of humans and animals

SPECIFIC EXPECTATIONS

Developing Investigation and Communication Skills:

- 2.4. Use appropriate science and technology vocabulary, including circulation, respiration, digestion, organs, and nutrients, in oral and written communication

Understanding Basic Concepts:

- 3.1. Identify major systems in the human body and describe their roles and interrelationships
- 3.2. Describe the basic structure and function of major organs in the respiratory, circulatory, and digestive systems
- 3.3. Identify interrelationships between body systems

TENTATIVE AGENDA

10:00 am <i>Classroom</i>	<p>Arrival and Introduction to the Topic</p> <ul style="list-style-type: none"> • Check-in with Guest Services • Meet Program Leader and Volunteer and travel to classroom • Introduce topic and vocabulary <ul style="list-style-type: none"> ○ Discuss why we need to eat and explore the structure of the human digestive system ○ Explore mechanical and chemical digestion and the organs involved in digestion ○ Compare the digestive systems of different groups of animals
10:30 am	Morning Snack <i>(optional)</i>
10:40 am <i>On-site Tour</i>	<p>Digestion Tour and Animal Enrichment</p> <ul style="list-style-type: none"> • Explore a section of the Zoo (e.g. Africa Rainforest Pavilion) and learn about the digestive systems of a variety of animals • Meet with a Wildlife Care staff member and watch an animal enrichment feeding
12:00 pm	<p>Lunch</p> <ul style="list-style-type: none"> • Opportunity for students to explore biofacts (e.g. skulls, furs, feathers, etc.)
12:25 pm <i>Classroom</i>	<p>Review</p> <ul style="list-style-type: none"> • Review vocabulary introduced in the morning session and discuss how an animal's digestive system impacts their food choice
12:40 pm <i>On-site Tour</i>	<p>Animal Digestion Tour</p> <ul style="list-style-type: none"> • Visit a different section of the Zoo and continue to explore the different types of digestive systems
1:50 pm	<p>Wrap-up and Departure</p> <ul style="list-style-type: none"> • Recap the similarities and differences between a variety of animal digestive systems, including humans

VOCABULARY

digestion	mechanical	chemical	carnivore
omnivore	herbivore	monogastric	ruminant
mouth	oesophagus	stomach	small intestine
large intestine	cecum	colon	rumen
reticulum	omasum	abomasum	beak
crop	proventriculus	gizzard	