

# Digestion Unit

## Summary Tables – Answer Key

Table 1: Food that carries essential nutrients is broken down during digestion into smaller particles that can be absorbed and used by cells.

Food Example	Essential Nutrient	Building Block (what is remaining after digestion)	Function of Nutrient
Rye Bread	Complex Carbohydrates	Simple sugars: Monosaccharides	Energy for your body
Turkey Slices	Protein	Peptides → Amino acids	Growth and repair
Oil Dressing	Lipids (fats)	Fatty acids and glycerol	Structure (plasma membrane) and stored energy

## **Digestion Alimentary Canal Overview**

Table 2: Organs of the alimentary canal (G.I. tract) have different structures because they have different functions in both physical and chemical digestion.

Organ	Enzymes Present	What happens here
Mouth	Amylase (in saliva)	<ul style="list-style-type: none"> <li>Mechanical digestion of all food (teeth)</li> <li>Chemical digestion of carbohydrates begin</li> </ul>
Esophagus	NONE	<ul style="list-style-type: none"> <li>Food passes from the mouth, through the esophagus, to the stomach (through cardiac sphincter)</li> <li>Movement by peristalsis (wavelike contraction of muscles)</li> </ul>
Stomach	Pepsin (gastric juice = HCl) (Hormone gastrin = relaxes pyloric sphincter)	<ul style="list-style-type: none"> <li>Mechanical digestion of food (rugae = churning of stomach walls)</li> <li>Chemical digestion of proteins begin (pepsinogen converts to pepsin)</li> </ul>
Small Intestine	<ul style="list-style-type: none"> <li>Pancreatic Juice <ul style="list-style-type: none"> <li>Secretin (neutralize acid)</li> <li>Maltase (maltose → glucose)</li> <li>Trypsinogen (peptides → amino acids)</li> <li>Lipase (lipids → glycerol and fatty acids)</li> </ul> </li> <li>Intestinal juice <ul style="list-style-type: none"> <li>peptidase (peptides → amino acids)</li> </ul> </li> <li>Bile from the liver (lipids → glycerol and fatty acids)</li> </ul>	<ul style="list-style-type: none"> <li>Peristalsis of S.I. to move food along and finish all mechanical digestion</li> <li>Chemical digestion of carbs, protein and lipids continues and is completed in the small intestine.</li> <li>Small, soluble nutrients are absorbed into the villi (broken down into the basic building blocks) <ul style="list-style-type: none"> <li>Sugars (glucose)</li> <li>Amino acids</li> <li>Fatty acids</li> <li>glycerol</li> </ul> </li> </ul>
Large Intestine	NONE	<ul style="list-style-type: none"> <li>Water is absorbed from unusable, undigestable wastes (feces)</li> </ul>
Rectum	NONE	<ul style="list-style-type: none"> <li>Feces are temporarily stored</li> </ul>
Anus	NONE	<ul style="list-style-type: none"> <li>Feces are eliminated (egested) from the body.</li> </ul>

# Answer Key To Unit Nutrition And Digestion

**Food and Nutrition Information Center  
(U.S.).**

## **Answer Key To Unit Nutrition And Digestion:**

*Audiovisual Guide to the Catalog of the Food and Nutrition Information and Educational Materials Center* Food and Nutrition Information Center (U.S.),1977 Over 400 entries to audiovisual materials received by FNIC before 1977 Includes motion pictures slides flashcards videocassettes charts filmstrips records posters transparencies film loops phonodiscs audiotapes games audiocassettes kits puzzles and models Entry gives accession number bibliographical information FNIC call number descriptors and abstract Subject author title and media indexes Contains loan information

**Audiovisual Guide to the Catalog of the Food and Nutrition Information and Educational Materials Center ,1977 Catalog**

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