

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

Answer Key To Unit Nutrition And Digestion

E. Kebreab



Answer Key To Unit Nutrition And Digestion:

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Table of Contents Answer Key To Unit Nutrition And Digestion

1. Understanding the eBook Answer Key To Unit Nutrition And Digestion
 - The Rise of Digital Reading Answer Key To Unit Nutrition And Digestion
 - Advantages of eBooks Over Traditional Books
2. Identifying Answer Key To Unit Nutrition And Digestion
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Answer Key To Unit Nutrition And Digestion
 - User-Friendly Interface
4. Exploring eBook Recommendations from Answer Key To Unit Nutrition And Digestion
 - Personalized Recommendations
 - Answer Key To Unit Nutrition And Digestion User Reviews and Ratings
 - Answer Key To Unit Nutrition And Digestion and Bestseller Lists
5. Accessing Answer Key To Unit Nutrition And Digestion Free and Paid eBooks

- Answer Key To Unit Nutrition And Digestion Public Domain eBooks
- Answer Key To Unit Nutrition And Digestion eBook Subscription Services
- Answer Key To Unit Nutrition And Digestion Budget-Friendly Options
- 6. Navigating Answer Key To Unit Nutrition And Digestion eBook Formats
 - ePub, PDF, MOBI, and More
 - Answer Key To Unit Nutrition And Digestion Compatibility with Devices
 - Answer Key To Unit Nutrition And Digestion Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Answer Key To Unit Nutrition And Digestion
 - Highlighting and Note-Taking Answer Key To Unit Nutrition And Digestion
 - Interactive Elements Answer Key To Unit Nutrition And Digestion
- 8. Staying Engaged with Answer Key To Unit Nutrition And Digestion
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Answer Key To Unit Nutrition And Digestion
- 9. Balancing eBooks and Physical Books Answer Key To Unit Nutrition And Digestion
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Answer Key To Unit Nutrition And Digestion
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Answer Key To Unit Nutrition And Digestion
 - Setting Reading Goals Answer Key To Unit Nutrition And Digestion
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Answer Key To Unit Nutrition And Digestion
 - Fact-Checking eBook Content of Answer Key To Unit Nutrition And Digestion
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development

- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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