

### what do animals eat

**herbivores** consume mainly plants and algae

**carnivores** consume other animals

**omnivores** consume animals as well as plants or algae

### Digestive System

#### Alimentary Canal

mouth

pharynx

esophagus

stomach

intestine

anus

#### accessory glands

salivary glands

liver

gallbladder

pancreas

### essential nutrients

four class of essential nutrients

-amino acids (~ from diet)

-fatty acids

-vitamins (small organic molecules)

-minerals (small inorganic molecules)

### malnourishment

- lack of essential nutrients

### How do animals eat?

specialized adaptations

dentition

intestinal adaptations

mutualistic adaptations

### Why do animals eat?

ATP needed for metabolism; generated by oxidation of glucose

glucose levels kept in balance by pancreatic hormones

-insulin & glucagon

glucose is stored in liver and muscle of glycogen

### Stages of Eating

1. ingestion

2. digestion

3. absorption high surface area

4. elimination

### Types of Ingestion

suspension feeder whales- toothbrush like teeth

bulk feeder humans and snakes

substrate feeder caterpillar

fluid feeder mosquitoes

### storage and release

**overnourishment** excess food energy; causes obesity

diabetes, colon/breast cancer, heart attacks, strokes

many hormones involved in ingestion/appetite

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Published 23rd March, 2022.  
Last updated 23rd March, 2022.  
Page 1 of 1.

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