

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

C

By [katiefocht25 \(katiefocht\)](#)
cheatography.com/katiefocht/

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