

Study guide for chapter 8
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Animal diet:

1. Herbivores
2. Carnivores
3. Omnivores

The four stages of processing food

- Ingestion
- Digestion
- Absorption
- Elimination

Digestion: a closer look:

- Why animals need digestion?
- What are the types of digestion?

Digestive compartments:

- How can an animal digest its food without also digesting its own tissues? In animal and at cellular level
- How sponge digest its food?
- What is a gastrovascular cavity? Give examples of animals with gastrovascular cavity
- What is the alimentary canal? Give examples of animals

Human digestive system:

What are the main and accessory organs of human digestive system?

Mouth or oral cavity:

- What are the components of the mouth and their functions?
- What type of digestion occur in the mouth?

Pharynx: Function, function of epiglottis

The esophagus: function, what is peristalsis?

The stomach: function, component of gastric juices and chime.

- What keeps the stomach from digesting itself?
- What is a gastric bypass?

The small intestine: size, function, duodenum

- What is the function of pancreas, liver, gallbladder.

The large intestine: size, function, colon, rectum, feces

- Appendix (location and function)
- What are the difference between diarrhea and constipation?

Human nutritional requirements:

- Define the following: a calorie and kilocalorie, metabolic rate, BMR, essential nutrients, essential amino acids, vitamins, Minerals, essential fatty acids and malnutrition.
- Your health depends on the continuous repair and maintenance of your tissues. How?
- What is obesity?

Plants:

- What are the essential elements for plants?
- What are macronutrients? Their role?

- Root: function, root hair
- How substances can enter root and transported and reach the xylem?
- How can plants absorb nitrogen from the soil?
- Define the following: Nitrogen fixation, xylem sap, adhesion and cohesion, cohesion tension hypotheses, phloem sap
- What force moves xylem sap up against the downward pull of gravity?