Ch 41.2 Notes

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Vocab

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Ingestion: The act of eating or feeding

Digestion: The second stage of food processing, food is broken down into molecules small enough for the body to absorb

Absorption: The animal’s cells absorb small molecules such as amino acids and simple sugars

Elimination: When undigested material passes out of the digestive system

Gastrovascular Cavity: A digestive compartment with a single opening that digests and distributes nutrients.

Alimentary Canal: A complete digestive track that digests food and acts like a really big gastrovascular cavity.

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Notes

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Food Processing

Four stages

* Ingestion
* Digestion
* Absorption
* Elimination

Ingestion

Eating or Feeding

Feeding mechanisms

* Filter feeding
* Substrate feeding
* Fluid feeding
* Bulk feeding

Digestion

Mechanical

Chemical

* Enzymatic hydrolysis
* Monomers

Absorption

Macromolecules taken into cells from digestive system.

External to internal

Elimination

Undigested material “removed” from digestive system.

Digestive compartments

Intracellular

* Food vacuoles (lysosomes)
* Phagocytosis

Extracellular

* Most animal species
* External compartments
* Secrete hydrolytic enzymes.
* Body plans
  + Gastrovascular cavity= 1 opening
    - Digestion + distribution throughout body
  + Complete digestive tract= alimentary canal= 2 openings
    - Compartments carry out different parts.