

Week 7 - Digestion

1) Introduction to the Digestive System

Why is digestion so important?

Provides the body with:

- Nutrients
- Substrates for making new "stuff" (proteins, carbs & lipids for cell membrane, fats & cholesterol for hormones)
- Fuel source (for ATP)
- Energy for cellular metabolism

Organs of the digestive system

1) The alimentary canal (gastrointestinal tract)

Passageway for food as it moves from the mouth to the anus

How food moves through the alimentary canal (gastrointestinal tract)

Food enters in by:

1. Mouth (oral cavity)
2. Pharynx
3. Oesophagus (chewing of the mouth, swallowing and movement of the oesophagus provides mechanical/physical breakdown of the food products)
4. Stomach
5. Small intestine (breakdown of food and absorption of most nutrients occurs here, and the indigestible products move to the large intestine)
6. Large intestine (where indigestible products go – are removed via the anus)
7. Anus

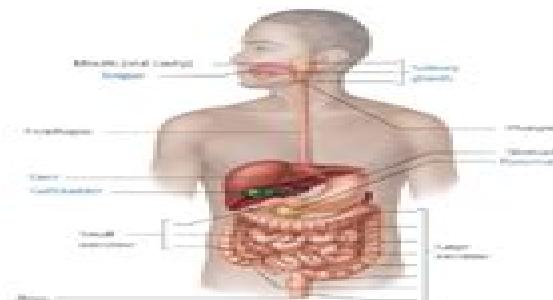
2) Accessory organs

Providing all the chemicals and solution required to perform the chemical digestion of the product

How the "accessory organs" are used to break all the food down

Is where we get all the required chemicals to help aid in the breakdown of foods

- Tongue – helps us move the food into the mouth and around it as we are breaking it down (mechanical breakdown)
- Salivary glands – provide enzymes in the saliva to help with the breakdown of food on a chemical level
- Liver – continues to aid in chemical digestion
- Gallbladder – stores things like bile to allow us to breakdown fats



Week 7 Digestion Study Guide Answers

Y Pai

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