**Digestive System**

LESSON OBJECTIVES:

Describe the process of digestion

Identify the digestive organs and explain the function of at least 2 organs

Explain how the body is made of systems, connecting the cell to the system

*Focus question:* **Is digestion a process of physical or chemical change?**



**Vocabulary Digestive System**

**Diffusion:**

The movement of molecules from high to low concentration until they are evenly distributed

**Osmosis:**

The movement of water through a semi-permeable membrane from high to low concentration

**Metabolism:**

All the physical and chemical processes in an organism that create energy and maintain growth, from digestion to cell respiration

**Enzyme:**

A catalyst molecule for chemical reactions

**Mitochondria:**

The cell organelle where respiration takes place and energy is created

**Villi:**

Small projections on the inside wall of the small intestine that absorb nutrients

**Carbohydrate:**

Foods (molecules) that contain starch and glucose

**Protein:**

Foods (molecules) that are made of amino acids

**Lipid:**

Foods (molecules) that are made of fats

**Catalyst:**

A substance that accelerates a chemical reaction

**DIGESTIVE ORGAN FUNCTIONS**

|  |  |  |  |
| --- | --- | --- | --- |
| **ORGAN** | **CHEMICAL****DIGESTION?** | **PHYSICAL DIGESTION?** | **FUNCTIONS** |
| Mouth: |  |  |  |
| Oesophagus: |  |  |  |
| Stomach: |  |  |  |
| Pancreas: |  |  |  |
| Liver:  |  |  |  |
| Gallbladder: |  |  |  |
| Small intestine: |  |  |  |
| Large intestine: |  |  |  |
| Rectum: |  |  |  |
| Anus: |  |  |  |

