## alimentarium academy

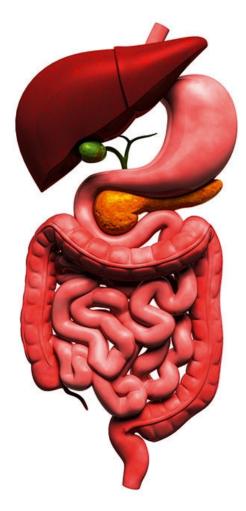
#### 4. The digestive system

#### 4.3 Historical representations of digestion

### 4.3.4 Today

### DIGESTION

Nowadays, we are aware that digestion is a complicated process. What happens is that food is firstly ground, then moistened as it is chewed. At this point, carbohydrates start to be broken down by salivary enzymes. Once swallowed, food quickly travels down the oesophagus.



Contractions churn the alimentary bolus in the stomach, mixing it with the gastric juices. Together, this churning and stomach enzymes produce a kind of liquid which can penetrate into the small intestine. Pancreatic juices and bile complete the digestive process and enable nutrients to be absorbed. What has not been assimilated goes into the large intestine, and here water and minerals are absorbed by the body. Finally, waste materials are emptied away through the anus.

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	day
We now know that digestion is not a sequence of mechanical and chemical transformations.	Food in the stomach is only transformed mechanically. O True O False
O False O True	
Today, we know that digestion is a very simple process.	Pancreatic juice and bile help digest proteins, lipids and some carbohydrates.
O True O False	O False O True
Food is ground up and moistened in the mouth. This process is called O inhalation O digestion	Most digested nutrients are absorbed in the intestines. O False O True
O mastication Saliva begins to break down proteins. O False	What is not absorbed in the large intestine? O Fibre O Minerals
O True The bolus travels through the stomach	O Water
before reaching the oesophagus.	Waste products from digestion are eliminated via
O True O False	O the anus O the large intestine O the colon

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### Answers

#### We now know that digestion is not a sequence of mechanical and chemical transformations.

#### False

Well done! Even though knowledge continues to advance, the discoveries of the 20th century remain valid today.

#### **O** True

Wrong! That is not the right answer.

#### Today, we know that digestion is a very simple process.

#### **O** True

Wrong. A nice try, though!

#### False

Well done! On the contrary, digestion is a complex process comprising many steps.

#### Food is ground up and moistened in the mouth. This process is called...

#### O inhalation

Wrong! Watch out, that would be the wrong track! O diaestion

Wrong! Nice try, but here we are only talking about one of the steps in the digestion process.

#### mastication

Well done! Chewing is the first step in digestion.

#### Saliva begins to break down proteins.

#### 🖌 False

Well done! Saliva does not begin to break down proteins, but it contains an enzyme which begins to break down starch, a complex carbohydrate.

#### **O True**

Wrong! Proteins are broken down at a later stage of the digestion process.

#### The bolus travels through the stomach before reaching the oesophagus.

#### **O** True

Wrong! Think about the order of the organs in your digestive tract.

#### **False**

Well done! That's right!

#### Food in the stomach is only transformed mechanically.

#### **O** True

Wrong! There is another type of transformation too.

#### False

Well done! Digestion is a sequence of mechanical and chemical transformations.

#### Pancreatic juice and bile help digest proteins, lipids and some carbohydrates.

#### **O** False

Wrong! Bile helps digest lipids, and pancreatic juice helps digest proteins and carbohydrates.

#### True

Well done! That's right! Bile takes charge of the lipids, and pancreatic juice focuses on the proteins and carbohydrates.

#### Most digested nutrients are absorbed in the intestines.

#### **O** False

Wrong! Try again!

#### True

Well done! That's right!

#### What is not absorbed in the large intestine?

#### Fibre

Well done! Fibre is much too bulky to be absorbed; however, part of it is fermented and the rest exits your digestive tract via your anus.

#### **O** Minerals

Wrong! Minerals are absorbed in your large intestine.

#### O Water

Wrong! Water is absorbed in your large intestine.

#### Waste products from digestion are eliminated via...

#### the anus

Well done! This is the end of the journey for food that entered your mouth more than 20 hours previously

#### O the large intestine

Wrong! The large intestine and the colon are two names for the same organ. Waste matter is concentrated as it travels through it.

#### O the colon

Wrong! The large intestine and the colon are two names for the same organ Waste mater is concentrated as it travels through it.