



## Digestive Enzymes

1 Why do we need enzymes to help with digestion?

They help us break down large molecules into smaller molecules by catalysing reactions, so that we can absorb them into our body across the intestinal lining.

[ 3 marks ]

2 Large molecules from food are broken down by enzymes to smaller molecules. Complete the table below.

Large molecule	Enzyme that catalyses the reaction	Small molecule
Carbohydrates	Carbohydrases / amylase	Maltose
Proteins	Protease enzymes	Amino acids
Lipids	Lipase enzymes	Glycerol and fatty acids

[ 4 marks ]

3 Give two ways that we use the products of digestion in our bodies

- As a source of energy e.g. glucose in respiration
- To make new carbohydrates (or proteins or lipids)
- As a building block

[ 2 marks ]

4 Where are each of the digestive enzymes produced?

Carbohydrases (e.g. amylase): Salivary glands, small intestine and pancreas

Proteases: Stomach and small intestine and pancreas

Lipases: Small intestine and pancreas

[ 3 marks ]

[ Total - 12 marks ]