

Name _____

Chemical Reactions In Digestion And Metabolism

Short Answer Key

1. The pancreas releases digestive enzymes, including lipase, protease, and amylase, to aid in the digestion of fats, proteins, and carbohydrates, respectively.
2. Anabolism involves building up complex molecules using energy, while catabolism involves breaking down complex molecules to release energy.
3. Insulin helps cells absorb glucose, regulating blood sugar levels, while thyroid hormones control the rate of metabolism, influencing energy production and overall metabolic activity.
4. After absorption into the bloodstream, nutrients are transported to cells throughout the body, where they are used for various functions, including energy production, growth, and repair.
5. Maintaining a balance between anabolism and catabolism ensures that the body has the energy it needs for daily activities while also providing building blocks for growth and repair.

