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A model of enzyme functioning based on the idea that an enzyme is rigid and permanently shaped to be substrate-specific like a key fits a lock. In this analogy, the lock is the enzyme and the key is the

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Enzymes Only the correctly sized key (substrate) fits into the key hole (active site) of the lock (enzyme)

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Enzymes The chemical reactions in all cells of living things operate in

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the presence of biological catalysts called enzymes.

Because a particular enzyme catalyzes only one reaction, there are thousands of different enzymes in a cell catalyzing thousands of different chemical reactions.

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The function of enzymes is to....in the body. proteins. Enzymes are made of... substrate. The...is the molecule/molecule s that the enzyme uses to make something else. product. The...is what the enzyme is making by either

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Enzymes or
breaking down
molecules. active
site.

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The lock and key
model of an
enzyme action
states: a. an
activator molecule,
the key, is required

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to alter the shape
of an enzyme
before the
substrate and
molecule can bind
to the active site b.
the active site
changes upon
binding of the
substrate
conforming to the
substrate and
binding it more
tightly

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enzymes Enzyme

that cuts DNA at a

specific sequence

of nucleotides->

4-7 bases

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that cuts...

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enzymes. protein
substances that
control the rate of
reactions. function
of enzymes.
catalyst, substrate.
catalyst. ... the
enzyme can
change shape to
slightly fit the
substrate. factors
that affects

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Enzyme action.

amount of enzyme
or substrate, PH,
temperature.
reaction.

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The enzyme
amylase will affect
the breakdown of
carbohydrates, but

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it will not affect the breakdown of proteins. The ability of an enzyme molecule to interact with specific molecules is most directly determined by the. Shape of the enzyme and its active site.

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Protein structure
and function:

Primary Structure:

Is linear sequence
of amino acids in
polypeptide chain.

Written from the
amino terminus (N-
terminus) to the
carboxyl terminus
(C-terminus).

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Structure: • α -helix: α -helices are formed when the carbonyl group of peptide bond forms a hydrogen bond with the amide nitrogen of another peptide bond four amino ...

*Week 1 Study
Guide Enzyme*
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Chapter 6 -

Metabolism -

Energy and

Enzymes One

defining

characteristic of

living things such

as cells is that they

organize their

environments, and

as you know,

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anything requires expenditure of energy! Where do cells obtain this energy, and how do they use it? Here we begin to explore concepts in energy, metabolism, and how cells regulate both - in short, how

...

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Chapter 6 ...*

The amount of energy that reactants must absorb before a chemical reaction will start Activation energy if un catalized reaction enerniseleased

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Activation energy of catalized reaction reactants Og products Reactant an enzyme acts on Region of an enzyme into which a particular substrate ts in order to catalyse a reaction.

Chapter 8 Energy

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*Enzymes and
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Enzymes are a naturally occurring chemical substance, usually a protein that acts as a catalyst for a chemical reaction. Enzymes differ in several ways from other naturally occurring chemical

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Enzymes. They have higher rates and different conditions of reactions. They also have a greater reaction specificity and regulation capacity.

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Enzymes - Free
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Enzymes will do this many, many, many, many, many, many times in its actual life. And so now what I want to show you is a little three-dimensional visualization that I got from a website, so let me go get that. Go ahead and pause my recording so I could

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get to this little
simulation or this
model, and this is
actually a
hexokinase as well,
and ...

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Energy and
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Biology SB1bc
Enzymes and
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SB1b Explain how enzymes function as catalysts. 1.

Describe enzymes.
“Reusable”

proteins that put together or break down substrates to form products. 2.

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They make bile and
enzymes

(pancreatic juices)

that help digest

food. chyme is

digested and

nutrients are

absorbed to the

bloodstream

absorbs water and

stores waste

releases waste

from body stores

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Esophagus digests food
by churning and
mixing with gastric
juices (acid &
enzyme)

passageway from
mouth to stomach

beginning of
digestion; food is
broken down

produces enzymes

produces bile

stores bile

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We can study enzymes in the context of activation energy. Many biochemical reactions need a little input of energy to jump-start a thermodynamically

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favorable reaction.

The activation energy is the amount of energy needed for the reaction to go forward and get over its activation barrier.

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Help | Energy Flow
and Enzymes Study*

...

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Enzymes Previous
Digestive Enzymes.
Next The Mouth.

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Physiology? Atoms,
Molecules, Ions,
and Bonds Quiz:
Atoms, Molecules,
Ions, and Bonds ...
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no matter what
you're studying,
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ease your
homework
headaches and
help you ...

This
comprehensive
monograph

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