Biology 12 Cell Biology	Name: Per: Date: Enzymes & Cell Metabolism Vacabulary Parions
	Vocabulary Review Vocabulary Re

EclipseCrossword.com

Reactants

Activation energy without enzyme Activation energy with enzyme

Products

Across

1.	The organic, nonprotein molecules (e.g. vitamins) that assist the enzyme and may even accept or contribute atoms to the reactions.
2.	Model that states that the active site of an enzyme changes shape slightly when bonded to substrate.
4.	When an enzymes shape changes and it can no longer perform its function, it is referred to as being
6.	The name for the reactants in an enzymatic reaction.
8.	The energy of is the energy that must be added to cause molecules to react with one another.
11.	Type of reaction that requires an input of energy.
13.	Abbreviation for the common energy currency of cells.
15.	Enzymes function to (raise/lower) the energy of activation for a reaction.
17.	In this type of work, ATP supplies energy needed to pump substances across the plasma membrane.
	Enzymes are highly as each one will drive only one biochemical reaction.
	Most enzymes have an optimal to work most efficiently at, however if it gets too high or too low
20.	the enzyme will cease to function.
23.	Three letter suffix for naming enzymes
24.	Sum of all the chemical reactions that occur in a cell.
25.	This metal acts as a non-competitive inhibitor and will cause death if exposed to it for a prolonged time.
	Required by all organisms to carry out the processes of life.
	In this type of work, ATP supplies the energy needed to permit muscles to contract, cilia and flagella to beat,
	etc.
Do	own
	own
1.	In this type of work, ATP supplies energy needed to synthesis macromolecules.
1. 3.	In this type of work, ATP supplies energy needed to synthesis macromolecules. A protein that functions to speed a chemical reaction.
1. 3. 5.	In this type of work, ATP supplies energy needed to synthesis macromolecules. A protein that functions to speed a chemical reaction. This poison is a competitive inhibitor and will cause rapid death as it interferes with ATP production.
1. 3. 5. 7.	In this type of work, ATP supplies energy needed to synthesis macromolecules. A protein that functions to speed a chemical reaction. This poison is a competitive inhibitor and will cause rapid death as it interferes with ATP production. Type of reaction that releases energy.
1. 3. 5. 7.	In this type of work, ATP supplies energy needed to synthesis macromolecules. A protein that functions to speed a chemical reaction. This poison is a competitive inhibitor and will cause rapid death as it interferes with ATP production. Type of reaction that releases energy. Produced by the thyroid gland and targets the mitochondria of most cells in the body.
1. 3. 5. 7. 9.	In this type of work, ATP supplies energy needed to synthesis macromolecules. A protein that functions to speed a chemical reaction. This poison is a competitive inhibitor and will cause rapid death as it interferes with ATP production. Type of reaction that releases energy. Produced by the thyroid gland and targets the mitochondria of most cells in the body. Small part of enzyme that fits together with the substrate.
1. 3. 5. 7. 9. 10.	In this type of work, ATP supplies energy needed to synthesis macromolecules. A protein that functions to speed a chemical reaction. This poison is a competitive inhibitor and will cause rapid death as it interferes with ATP production. Type of reaction that releases energy. Produced by the thyroid gland and targets the mitochondria of most cells in the body. Small part of enzyme that fits together with the substrate. Inorganic ions such as copper, zinc, or iron that help enzymes function properly.
1. 3. 5. 7. 9.	In this type of work, ATP supplies energy needed to synthesis macromolecules. A protein that functions to speed a chemical reaction. This poison is a competitive inhibitor and will cause rapid death as it interferes with ATP production. Type of reaction that releases energy. Produced by the thyroid gland and targets the mitochondria of most cells in the body. Small part of enzyme that fits together with the substrate. Inorganic ions such as copper, zinc, or iron that help enzymes function properly. Small, organic molecules that must be consumed in our foods as the body cannot produce them. Without
1. 3. 5. 7. 9. 10. 12.	In this type of work, ATP supplies energy needed to synthesis macromolecules. A protein that functions to speed a chemical reaction. This poison is a competitive inhibitor and will cause rapid death as it interferes with ATP production. Type of reaction that releases energy. Produced by the thyroid gland and targets the mitochondria of most cells in the body. Small part of enzyme that fits together with the substrate. Inorganic ions such as copper, zinc, or iron that help enzymes function properly. Small, organic molecules that must be consumed in our foods as the body cannot produce them. Without them, the body suffers from a lack of certain enzymatic actions.
1. 3. 5. 7. 9. 10. 12. 14.	In this type of work, ATP supplies energy needed to synthesis macromolecules. A protein that functions to speed a chemical reaction. This poison is a competitive inhibitor and will cause rapid death as it interferes with ATP production. Type of reaction that releases energy. Produced by the thyroid gland and targets the mitochondria of most cells in the body. Small part of enzyme that fits together with the substrate. Inorganic ions such as copper, zinc, or iron that help enzymes function properly. Small, organic molecules that must be consumed in our foods as the body cannot produce them. Without them, the body suffers from a lack of certain enzymatic actions. Model that states an enzyme and substrate fit perfectly together.
1. 3. 5. 7. 9. 10. 12. 14.	In this type of work, ATP supplies energy needed to synthesis macromolecules. A protein that functions to speed a chemical reaction. This poison is a competitive inhibitor and will cause rapid death as it interferes with ATP production. Type of reaction that releases energy. Produced by the thyroid gland and targets the mitochondria of most cells in the body. Small part of enzyme that fits together with the substrate. Inorganic ions such as copper, zinc, or iron that help enzymes function properly. Small, organic molecules that must be consumed in our foods as the body cannot produce them. Without them, the body suffers from a lack of certain enzymatic actions. Model that states an enzyme and substrate fit perfectly together. When the bonded together, the enzyme and substrate form an enzyme-substrate
1. 3. 5. 7. 9. 10. 12. 14.	In this type of work, ATP supplies energy needed to synthesis macromolecules. A protein that functions to speed a chemical reaction. This poison is a competitive inhibitor and will cause rapid death as it interferes with ATP production. Type of reaction that releases energy. Produced by the thyroid gland and targets the mitochondria of most cells in the body. Small part of enzyme that fits together with the substrate. Inorganic ions such as copper, zinc, or iron that help enzymes function properly. Small, organic molecules that must be consumed in our foods as the body cannot produce them. Without them, the body suffers from a lack of certain enzymatic actions. Model that states an enzyme and substrate fit perfectly together. When the bonded together, the enzyme and substrate form an enzyme-substrate A metabolic is a series of linked reactions that begin with a particular reactant and terminate with
1. 3. 5. 7. 9. 10. 12. 14. 15. 16. 19.	In this type of work, ATP supplies energy needed to synthesis macromolecules. A protein that functions to speed a chemical reaction. This poison is a competitive inhibitor and will cause rapid death as it interferes with ATP production. Type of reaction that releases energy. Produced by the thyroid gland and targets the mitochondria of most cells in the body. Small part of enzyme that fits together with the substrate. Inorganic ions such as copper, zinc, or iron that help enzymes function properly. Small, organic molecules that must be consumed in our foods as the body cannot produce them. Without them, the body suffers from a lack of certain enzymatic actions. Model that states an enzyme and substrate fit perfectly together. When the bonded together, the enzyme and substrate form an enzyme-substrate A metabolic is a series of linked reactions that begin with a particular reactant and terminate with an end product.
1. 3. 5. 7. 9. 10. 12. 14. 15. 16. 19.	In this type of work, ATP supplies energy needed to synthesis macromolecules. A protein that functions to speed a chemical reaction. This poison is a competitive inhibitor and will cause rapid death as it interferes with ATP production. Type of reaction that releases energy. Produced by the thyroid gland and targets the mitochondria of most cells in the body. Small part of enzyme that fits together with the substrate. Inorganic ions such as copper, zinc, or iron that help enzymes function properly. Small, organic molecules that must be consumed in our foods as the body cannot produce them. Without them, the body suffers from a lack of certain enzymatic actions. Model that states an enzyme and substrate fit perfectly together. When the bonded together, the enzyme and substrate form an enzyme-substrate A metabolic is a series of linked reactions that begin with a particular reactant and terminate with
1. 3. 5. 7. 9. 10. 12. 14. 15. 16. 19.	In this type of work, ATP supplies energy needed to synthesis macromolecules. A protein that functions to speed a chemical reaction. This poison is a competitive inhibitor and will cause rapid death as it interferes with ATP production. Type of reaction that releases energy. Produced by the thyroid gland and targets the mitochondria of most cells in the body. Small part of enzyme that fits together with the substrate. Inorganic ions such as copper, zinc, or iron that help enzymes function properly. Small, organic molecules that must be consumed in our foods as the body cannot produce them. Withou them, the body suffers from a lack of certain enzymatic actions. Model that states an enzyme and substrate fit perfectly together. When the bonded together, the enzyme and substrate form an enzyme-substrate A metabolic is a series of linked reactions that begin with a particular reactant and terminate with an end product.