

Science Jeopardy



The Scientific
Study of Life

Biochemistry
and Bonding

Essential
Molecules

The Cell and its
Organelles

Cellular
Mechanics

100

100

100

100

100

200

200

200

200

200

300

300

300

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300

400

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400

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500

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500

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500

Final Jeopardy

Help

- (1) Save a duplicate of this template.
- (2) Enter all answers and questions in the normal view. (view/normal)
- (3) Change the category headings in the normal view (view/normal)
- (4) View as a slideshow.
- (5) Use the home red button after each question.



The Scientific Study of Life-100

- **ANSWER:** All living organisms in an ecosystem.
- **QUESTION:** What is a community?

Answer

Question



The Scientific Study of Life-200

- **ANSWER:** Organisms of this kingdom are unicellular prokaryotes.
- **QUESTION:** What is Kingdom Monera?

Answer

Question



The Scientific Study of Life-300

- **ANSWER:** The heritable trait that gives you the advantage due to natural selection.
- **QUESTION:** What is an adaptation?

Answer

Question



The Scientific Study of Life-400

- **ANSWER:** These are the seven steps of the scientific process in order.
- **QUESTION:** What are Observations, Questions, Hypotheses, Predictions, Tests, Conclusions, and Replication?

Answer

Question



The Scientific Study of Life-500

- **ANSWER:** The difference between a dependent and an independent variable and the axes that they represent.
- **QUESTION:** The dependent variable is what is being measured (y-axis), the independent variable is held constant through the experiment (x-axis)

Answer

Question



Biochemistry and Bonding -100

- **ANSWER: Water's tendency to stick together.**
- **QUESTION: What is cohesion?**

Answer

Question



Biochemistry and Bonding -200

- **ANSWER:** The ions formed when water is ionized.
- **QUESTION:** What are hydronium (H_3O^+) and hydroxide (OH^-)?

Answer

Question



Biochemistry and Bonding -300

- **ANSWER:** What the pH scale measures.
- **QUESTION:** What is the relative concentration of H⁺ ions (the degree of acidity)?

Answer

Question



Biochemistry and Bonding -400

- **ANSWER:** The type of bond found in CH_4 , O_2 , and KCl respectively.
- **QUESTION:** What are covalent, covalent, and ionic bonds?

Answer

Question



Biochemistry and Bonding -500

- **ANSWER:** The definition of a radioactive isotopes.
- **QUESTION:** Elements that have the same atomic number but varying numbers of neutrons that are unstable (nucleus does not remain intact) and give off energy as they try to become stable.

Answer

Question



Essential Molecules-100

- **ANSWER:** The functional group found in hydrocarbons.
- **QUESTION:** What is a methyl group?

Answer

Question



Essential Molecules -200

- **ANSWER:** The definition of an isomer.
- **QUESTION:** What are compounds that have the same molecular formula but have different molecular structures?

Answer

Question



Essential Molecules -300

- **ANSWER:** The process by which monomers are linked together.
- **QUESTION:** What is dehydration synthesis?

Answer

Question



Essential Molecules -400

- **ANSWER:** The general structure of a steroid molecule.
- **QUESTION:** What are four carbon rings including 3 six-sided rings and 1 five-sided ring?

Answer

Question



Essential Molecules -500

- **ANSWER: Four of the seven classes of proteins.**
- **QUESTION: What are structural, contractile, storage, defensive, transport, signal, and enzymes?**

Answer

Question



The Cell and its Organelles -100

- **ANSWER: Location of DNA in a prokaryotic cell.**
- **QUESTION: What is the nucleoid region?**

Answer

Question



The Cell and its Organelles -200

- **ANSWER:** The organelle responsible for the synthesis and packaging of secretory proteins.
- **QUESTION:** What is the rough endoplasmic reticulum?

Answer

Question



The Cell and its Organelles -300

- **ANSWER:** Cellular compartments that store digestive enzymes.
- **QUESTION:** What are lysosomes?

Answer

Question



The Cell and its Organelles -400

- **ANSWER:** The structure and function of a granum.
- **QUESTION:** What are stacks of thylakoids where chlorophyll captures solar energy?

Answer

Question



The Cell and its Organelles -500

- **ANSWER:** Both of these organelles contain their own DNA and can reproduce themselves.
- **QUESTION:** What are mitochondria and chloroplasts?

Answer

Question



Cellular Mechanics -100

- **ANSWER: This occurs during Energy Coupling.**
- **QUESTION: When does a cell acquire chemical energy from exergonic processes to then drive and endergonic reaction?**

Answer

Question



Cellular Mechanics -200

- **ANSWER:** The mechanism by which an enzyme functions.
- **QUESTION:** What is lowering the activation energy needed for the substrate to break the bonds of the substrate?

Answer

Question



Cellular Mechanics -300

- **ANSWER: The function of non-competitive inhibitor.**
- **QUESTION: What is changing the active site of an enzyme so that the substrate no longer fits by binding to the enzyme at a location other than the active site?**

Answer

Question



Cellular Mechanics -400

- **ANSWER:** These carbohydrate chains are located on the outside of the plasma membrane and give the cells a specific identity.
- **QUESTION:** What are glycoproteins and glycolipids?

Answer

Question



Cellular Mechanics -500

- **ANSWER: A hypotonic solution.**
- **QUESTION: What is the term that describes a cell that is placed into a solution that has a lower solute concentration than the cell itself?**

Answer

Question



FINAL JEOPARDY

- **ANSWER:** Ms. Martel's and Mrs. Kymissis's alma maters.
- **QUESTION:** What are the University of Notre Dame and Lehigh University?

Answer

Question

