Student Performance by Question
Core 1 / S-14

Biology (Multiple-Choice ONLY)

Teacher: _____

Analysis of Performance by Question of each student targeted for Remediation or Intervention
Enter a "1" in each box to indicate a missed question.

	Scientific Investigation											Life at the Molecular and Cellular Level																
Student Name	Differentiate among hypothesis, theory, and law.	Demonstrate an understanding of the nature of science by using data.	Demonstrate the nature of science by using the scientific method.	Formulate a hypothesis, theory, or law.	Apply nature of science skills by using technology.	Make inferences using data analysis.	Demonstrate appropriate nature of science skills when researching science content.	Demonstrate an understanding of nature of science by evaluating scientific experiments.	Demonstrate nature of science skills by evaluating scientific experiments.	Demonstrate the nature of science by identifying components of scientific investigations.	Evaluate scientific investigations and research by applying nature of science skills.	Describe cellular processes.	Identify historical contributions to common mechanisms of inheritance and protein synthesis.	Describe the functions of cellular processes.	Explain chemical and biological principles essential for life.	Identify mechanisms for replication of nucleic acids.	Identify the relationship between cellular respiration and photosynthesis.	Evaluate historical contributions to common mechanisms of inheritance and protein synthesis.	Identify properties of water and their impact on biological processes.	Identify structures and processes needed by cells.	Demonstrate an understanding of inheritance by exploring biochemical technologies.	Identify biochemical mechanisms of protein syntheses.	Explain chemical processes in living systems.	Explain genetic relationships in living systems.	Describe the methods of modern classification systems.	Compare evidence for Archaea, Bacteria, and Eukarya in relation to germ theory.	Apply knowledge of the mechanisms of inheritance.	Apply knowledge of biochemical and structural mechanisms of inheritance.
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			0	0

Life at Systems & Organisms Level											Interaction of Life Forms											
Infer relationships based on structural similarities.	Compare evidence for Archaea, Bacteria, and Eukarya life functions.	Identify attributes of Archaea, Bacteria, and Eukarya.	Explain life functions of Archaea, Bacteria, and Eukarya.	Infer the basis for modern clasification systems.	Classify Archaea, Bacteria, and Eukarya according to life functions.	Infer relationships based on developmental stages.	Identify the structures needed by living systems.	Apply an understanding of modern classification systems.	Describe life processes in living systems.	Apply knowledge of biochemical and structural mechanisms of inheritance.	Make inferences about dynamic equilibria within populations.	Evaluate evidence for how populations change through time.	Identify methods used to evaluate fossil record data.	Compare evidence for Archaea, Bacteria, and Eukarya in relation to germ theory.	Infer the basis for modern classification systems using fossils.	Explain dynamic equilibria amoung populations, communities, and ecosystems.	Identify processes for how populations change through time.	Describe the flow of energy and nutrients within ecosystems.	Make inferences about dynamic equilibria within populations by analyzing ecosystems.	Identify mechanisms for how populations change through time.	Explain mechanisms for how populations change through time.	Total
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Student Performance by Question
Core 2 / S-23

Biology (Multiple-Choice ONLY)

Teacher: _____

Analysis of Performance by Question of each student targeted for Remediation or Intervention
Enter a "1" in each box to indicate a missed question.

	Scientific Investigation											Life at the Molecular and Cellular Level															
Student Name	Select appropriate scientifiequipment for a lab procedure.	Utilize appropriate graphing methods for data analysis.	Identify a variable in an experiment.	Demonstrate an understanding of the nature of science by using data.	Utilize apropriate graphing methods for data analysis.	Differentiate among hypothesis, theory, and law.	Evaluate scientific investigations and infer alternate explanations.	Determine the most appropriate method of observation for a study.	Apply nature of science skills by using technology and research.	Demonstrate an understanding of nature of science by evaluating scientific experiments.	Analyze an experimental design to determine how to increase validity.	Identify historical contributions to common mechanisms of inheritance and protein synthesis.	Recognize concepts of cell growth and division.	Interpret a diagram to identify a stage of the cell cycle.	Explain chemical and biological principles essential for life.	Identify properties of water and their impact on biological processes.	Identify the relationship between cellular respiration and photosynthesis.	Evaluate historical contributions to common mechanisms of inheritance and protein synthesis.	Choose most accurate method of determining relationship between two species.	Evaluate mechanisms of inheritance resulting in genetic variation.	Apply knowledge of the biochemical processes involved in inheritance.	Demonstrate an understanding of inheritance by exploring biochemical technologies.	Identify structures and functions of macromolecules.	Understand relationship of cell structures and their functions.	Demonstrate an understanding of viruses.	Explain genetic relationships in living systems.	Recognize characteristic cell structures of different types of eukaryotes.	Use a Punnett square to predict the inheritance of traits.
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			0	0

Life at Systems & Organisms Level											Interaction of Life Forms											
Infer relationships based on structural similarities.	Explain life functions of Archaea, Bacteria, and Eukarya by comparing their structures.	Apply an understanding of fossil studies.	Infer the basis for modern classification systems based on developmental stages.	Infer the basis for modern classification systems.	Evaluate structure and function of Eukarya.	Predict the probable outcome of a genetic cross.	Describe life processes in living systems.	Apply an understanding of modern classification systems.	Compare structures and functions among Archaea, Bacteria, and Eukarya.	Apply knowledge of biochemical and structural mechanisms of inheritance.	Compare evidence for Archaea, Bacteria, and Eukarya in relation to germ theory.	Relate environmental change to change in a population.	Apply an understanding of how genetic variation and reproductive strategies impact populations through time.	Describe the flow of energy and nutrients within ecosystems.	Make inferences about dynamic equilibria within populations by analyzing ecosystems.	Evaluate evidence for how populations change over time.	Identify processes for how populations change through time.	Evaluate evidence for how species change over time.	Apply an understanding of population growth.	Draw a conclusion based on fossil records.	Apply an understanding of the effects of human activities on ecosystems.	Total
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Student Performance by Question
Core 3 / S-33

Biology (Multiple-Choice ONLY)

Teacher: _____

Analysis of Performance by Question of each student targeted for Remediation or Intervention

Enter a "1" in each box to indicate a missed question.

	Scientific Investigation											Life at the Molecular and Cellular Level															
Student Name	Select appropriate scientific equipment for lab procedure.	Recognize how to improve validity of data.	Identify a variable in an experiment.	Utilize appropriate graphing methods for data analysis.	Determine which methods will provide useful information about a particular situation.	Analyze an experiment to identify a source of error in its design.	Identify ways to reduce error in an experimental design.	Demonstrate how to make an accurate measurements using a scientific tool.	Predict changes in an investigation given information from literature review.	Analyze an experimental design to determine how to increase validity.	Determine the most appropriate methodology for a particular study.	Apply an understanding of DNA technologies.	Apply an understanding of the structure of DNA.	Recognize common elements in living cells.	Recognize important properties of water.	Interpret a diagram to identify a stage of the cell cycle.	Evaluate historical contributions to common mechanisms of inheritance and protein synthesis.	Associate cell specialization with multicellularity.	Demonstrate an understanding of how viruses compare with organisms.	Apply an understanding of inheritance and sources of genetic variation.	Choose most accurate method of determining relationship between two species.	Recognize concepts of cell growth and division.	Apply an understanding of osmosis.	Understand relationship of cell structures and their functions.	Demonstrate an understanding of viruses.	Recognize events associated with the construction of proteins.	Recognize characteristic cell structures of different types of eukaryotes.	Use a Punnett square to predict the inheritance of traits.
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			0	0

Life at Systems & Organisms Level											Interaction of Life Forms											
Apply an understanding of systems of classification.	Apply an understanding of characteristics shared by organisms.	Apply a understanding of fossil studies.	Compare metabolic activities of organisms.	Evaluate structure and function of Eukarya.	Apply an understanding of cell processes that help maintain homeostasis.	Analyze a structure that performs a function in a particular organism.	Predict the probable outcome of a genetic cross.	Apply an understanding of the metabolic activities of organisms.	Interpret similarities in development stages of organisms.	Apply an understanding of how organisms maintain homeostasis.	Perform an analysis of food webs.	Determine evidence that supports common ancestry of two organisms.	Apply an understanding of how genetic variation and reproductive strategies impact populations through time.	Make an inference about a fossil based on its characteristics.	Demonstrate an understanding of natural selection.	Apply understanding of infectious disease.	Interpret information about an ecosystem.	Apply an understanding of population growth.	Draw a conclusion based on fossil records.	Predict likely progression of ecological succession.	Apply an understanding of evolution.	Total
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