Student Performance by Question
Core 1 - S-14

**Earth Science** (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 and the Nature of Science | | | | | | | | | | Earth and Space Systems | | | | | | | | | | Earth Materials and Processes | | | | | | | |
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| Student Name | Interpret geospatial technological evidence to identify qualitative data. | Describe the interactions of complex Earth systems. | Analyze or select evidence that best supports sicentific theory. | Analyze the variables and constants in a scientific investigation. | Apply knowledge of latitude and longitude to determine locations on Earth. | Interpret data from calculations. | Analyze and interpret topographical maps. | Utilize observations to support explanations of scientific phenomena. | Evaluate scientific evidence required to support hypotheses and explanations. | Analyze and interpret scientific information to form scientific conclusions. | Describe physical and chemical changes of the oceans. | Evaluate impacts of geological processes or human activity on natural resources in Earth | Evaluate weather maps to make predictions. | Identify components and processes of our solar system. | Identify the cause of natural processes in Earth systems. | Describe features of the seafloor that result from tectonic processes. | Analyze interactions of systems that affect climate of Earth. | Evaluate models of freshwater sytems to make predictions. | Evaluate conditions of severe weather. | Compare and contrast the components and interactions of Earth and space systems. | Compare and contrast geologic processes and their resulting features. | Relate processes that form different rocks on Earth. | Classify and differentiate among the rocks evidenced throughout the world. | Classify soil based on composition, characteristics, or formation processes. | Identify processes involved in forming metamorphic rocks. | Classify minerals according to chemical and physical properties. | Compare and contrast geologic processes and their resulting features. | Evaluate cause and effects of natural interactions within Earth systems. |
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| Utilize scientific tools and inquiry to arrive at, support, and illustrate scientific conclusions. | Analyze evidences to determine geologic events. | Apply principles of geologic dating mechods to draw conclusions. | Explain modes of fossil preservation. | Classify and differentiate the fossils evidenced in the physiographic provices of Virginia. | Describe the evolution of objects in the Universe. | Apply methods of geologic dating. | Utilize scientific inquiry to arrive at, support, and illustrate scientific conclusions. | Recognize geologic features related to geologic time. | Distinguish and explain modes of atmospheric evolution. | Distiguish and explain theories regarding origins of the universe. | Describe atmostpheric regulation mechanisms. | Apply understanding of Earth and the solar system by identifying contributions of space exploration. | Analyze human activity impact on natural resources. | Identify components and processes of Earth systems. | Evaluate models of Virginia's watersheds to make predictions. | Classify and differentiate among the minerals evidenced in the physiographic provices of Virginia. | Evaluate present environmental conditions to infer environmental impacts due to human activity. | Predict environmental impact of natural events on Earth systems. | Predict environmental impact of human activity on natural resources. | Identify basic interactions among humans, resource use, and the environment. | Evaluate the complex, interactive physical, chemical, and biological systems of the Chesapeake Bay. | Total |
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Student Performance by Question
Core 2 - S-23

**Earth Science** (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.

| Student Name | Scientific Investigation and the Nature of Science | | | | | | | | | | Earth and Space Systems | | | | | | | | | | Earth Materials and Processes | | | | | | | | |
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| | Determine latitude and longitude of a location on a map. | Use mathematical manipulations pertaining to density. | Recognize tools used in scientific inquiry. | Compare the layers of Earth's interior. | Evaluate data collection methods. | Analyze and select evidence that best supports scientific theory. | Identify appropriate methods to display data. | Evaluate scientific evidence required to support hypotheses and explanations. | Identify and independent variable in an experiment. | Analyze and interpret scientific information to form scientific conclusions. | Describe physical and chemical changes of the oceans. | Analyze atributes of weather and climate on Earth. | Classify and differentiate among the soils evidenced throughout the world. | Classify and differentiate among the rocks evidenced throughout the world. | Identify processes involved in forming metamorphic rocks. | Compare and contrast geologic processes and their resulting features. | Identify uses of common minerals and rocks. | Understand characteristics of minerals. | Understand characteristics of minerals. | Associate specific terrestrial landforms with tectonic activity. | Apply and evaluate methods of geologic dating. | Explain modes of fossil preservation. | Identify evidence of different geological periods in Virginia. | Utilize fossil evidence in establishing geologic tables. | Identify observations associated with expanding universe. | Relate a star's characterstics to its predicted life cycle. | Analyze interactions that affect weather on Earth. | Recognize geologic features related to geologic time. | Distinguish and explain modes of atmospheric evolution. |
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| Identify characteristics of early oceans. | Apply and evaluate methods of geological dating. | Explain modes of fossil preservation. | Identify evidence of different geological periods in Virginia. | Utilize fossil evidence in establishing geologic tables. | Identify observations associated with expanding universe. | Relate a star's characteristics to its predicted life cycle. | Analyze interactions that affect weather on Earth. | Recognize geologic features related to geologic time. | Distinguish and explain modes of atmostpheric evolution. | Identify characteristics of the early oceans. | Identify uses of Virginia resources. | Apply understanding of Earth and the solar system by indentifying contributions of space exploration. | Identify watersheds of Virginia. | Analyze human activity impact on natural resources. | Identify components and processes of Earth systems. | Analyze the physical, chemical, and biological interactions of Earth's oceans. | Compare present enviornmental conditions to infer environmental impacts of resource consumption. | Identify types of gases that are given off by volcanoes. | Identify advantages and disadvantages of various energy sources. | Evaluate energy sources based on advantages or disadvantages. | Total |
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Student Performance by Question
Core 3 - S-33

**Earth Science** (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 and the Nature of Science | | | | | | | | | | Earth and Space Systems | | | | | | | | | | Earth Materials and Processes | | | | | | | |
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| Student Name | Determine latitude and longitude of a location on a map. | Associate a measurement instrument with the data it will collect. | Understand apparent star movement during the night. | Compare the layers of Earth's interior. | Understand how to determine an earthquake epicenter. | Classify and differentiate geologic processes using scientific information. | Interpret a topographic map. | Identify aspects of plate tectonic theory. | Relate factors associated with erosion. | Identify the independent variable in a experiment. | Correlate moon phases and tidal impact. | Utilize scientific tools and inquiry to make predictions in interactions of Earth systems. | Analyze geologic structures to determine their origin. | Identify characteristics of Earth. | Identify components and processes of our solar system. | Identify components, interactions, and processes of Earth systems. | Interpret data from a graph or table to calculate changes. | Compare the characteristics of Earth's atmostphere to the atmospheres of other planets. | Distinguish between the processes in the water cycle. | Compare and contrast weather and climate. | Relate geologic features to physiographic provinces in Virginia. | Identify rock type by the process that is responsible for its formation. | Identify the processes responsible for the formation of metamorphic rocks. | Compare and contrast geologic processes and their resulting features. | Identify the process of sedimentary rock formation. | Understand characteristics of minerals. | Describe attributes of metamorphic rock. | Apply an understanding of plate tectonic theory. |
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| | | Cosmology, Origins, and Time | | | | | | | | | | Earth Resources and Human Interactions | | | | | | | | | | |
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| Identify parts of an earthquake. | Associate specific terrestrial landforms with tectonic activity. | Explain modes of fossil preservation evidenced in the physiographic provices of Virginia. | Identify evidence of different geological periods in Virginia. | Identify evidence supporting big bang theory. | Describe radiometric dating techniques. | Relate a star's characteristics to its predicted life cycle. | Comprehend measurements of stellar objects. | Describe changes in Earth's atmosphere over time. | Describe the law of superposition. | Identify rock type associated with fossils. | Identify characteristics of the early oceans. | Classify and differentiate among rocks and minerals. | Understand characteristics of minerals. | Identify uses of Virginia resources. | Recognize the interrelationship between ocean and atmosphere. | Identify watersheds of Virginia. | Identify effects of volcanic eruptions. | Recognize a process of erosion. | Describe characteristics of nonrenewable resources. | Evaluate the environmental costs and benefits of energy sources | Evaluate energy sources based on advantages or disadvantages. | Total |
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