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| **NGHS** |
| ***Cell Structure and Function*** |
| |  | | --- | | http://www.teach-nology.com/web_tools/rubrics/general/score.GIF | |
| |  |  | | --- | --- | | Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Teacher: SLATER | |
| |  |  | | --- | --- | | Date : \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Title of Work: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | |
| |  |  |  |  | | --- | --- | --- | --- | | |  |  |  | | --- | --- | --- | |  | **Criteria** | **Points** | | | |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | |  | 1 | 2 | 3 | 4 |  | | **Cell Structures** | Missing 4 or more of the structures of organelles in eukaryotic cells (including the nucleus, plasma membrane, cell wall, mitochondria, vacuoles, chloroplasts, and ribosomes) | Summarizes ALL but 3 of the structures of organelles in eukaryotic cells (including the nucleus, plasma membrane, cell wall, mitochondria, vacuoles, chloroplasts, and ribosomes) | Summarizes ALL but 1 or 2 structures of organelles in eukaryotic cells (including the nucleus, plasma membrane, cell wall, mitochondria, vacuoles, chloroplasts, and ribosomes) | Summarizes ALL of the structures of organelles in eukaryotic cells (including the nucleus, plasma membrane, cell wall, mitochondria, vacuoles, chloroplasts, and ribosomes) | \_\_\_\_ | | **Functions of Cell Organelles** | Missing 4 or more of the functions of organelles in eukaryotic cells (including the nucleus, plasma membrane, cell wall, mitochondria, vacuoles, chloroplasts, and ribosomes) and ways that these organelles interact with each other to perform the function of the cell. | Summarizes ALL but 3 of the functions of organelles in eukaryotic cells (including the nucleus, plasma membrane, cell wall, mitochondria, vacuoles, chloroplasts, and ribosomes) and ways that these organelles interact with each other to perform the function of the cell. | Summarizes ALL but 1 or 2 of the functions of organelles in eukaryotic cells (including the nucleus, plasma membrane, cell wall, mitochondria, vacuoles, chloroplasts, and ribosomes) and ways that these organelles interact with each other to perform the function of the cell. | Summarizes ALL of the functions of organelles in eukaryotic cells (including the nucleus, plasma membrane, cell wall, mitochondria, vacuoles, chloroplasts, and ribosomes) and ways that these organelles interact with each other to perform the function of the cell. | \_\_\_\_ | | **Prokaryotic versus Eukaryotic Cells** | Does not compare prokaryotic and eukaryotic cells in terms of their general structures (plasma membrane and genetic material) and degree of complexity. | Vague or general comparison of prokaryotic and eukaryotic cells in terms of their general structures (plasma membrane and genetic material) and degree of complexity. | Somewhat clear comparison of the prokaryotic and eukaryotic cells in terms of their general structures (plasma membrane and genetic material) and degree of complexity. | Clearly compares prokaryotic and eukaryotic cells in terms of their general structures (plasma membrane and genetic material) and degree of complexity. | \_\_\_\_ | | **Homeostasis** | Does not explain or demonstrate how homeostasis is maintained in the cell and within an organism in various environments (including temperature and pH). | Vague or general explaination or demonstration of how homeostasis is maintained in the cell and within an organism in various environments (including temperature and pH). | Somewhat explains or demonstrates how homeostasis is maintained in the cell and within an organism in various environments (including temperature and pH). | Clearly explains or demonstrates how homeostasis is maintained in the cell and within an organism in various environments (including temperature and pH). | \_\_\_\_ | |  |  |  |  |  | \_\_\_\_ | |  |  |  |  | **Total---->** | \_\_ | | |

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| **NGHS** |
| ***THE CELL CYCLE*** |
| |  | | --- | | http://www.teach-nology.com/web_tools/rubrics/general/score.GIF | |
| |  |  | | --- | --- | | Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Teacher: Slater | |
| |  |  | | --- | --- | | Date : \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Title of Work: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | |
| |  |  |  |  | | --- | --- | --- | --- | | |  |  |  | | --- | --- | --- | |  | **Criteria** | **Points** | | | |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | |  | 1 | 2 | 3 | 4 |  | | **Cell Cycle Steps** | Analysis is missing 3 or more steps of how cells grow and reproduce in terms of Growth 1, Synthesis, Growth 2, Mitosis and cytokinesis. | Analysis is missing 2 steps of how cells grow and reproduce in terms of Growth 1, Synthesis, Growth 2, Mitosis and cytokinesis. | Analysis is missing 1 step of how cells grow and reproduce in terms of Growth 1, Synthesis, Growth 2, Mitosis and cytokinesis. | Analysis includes how cells grow and reproduce in terms of Growth 1, Synthesis, Growth 2, Mitosis and cytokinesis. | \_\_\_\_ | | **Meiosis** | Missing more than 4 of Demonstrations or explainations of how cells grow and reproduce in terms of Meiosis I and Meiosis II. Includes Prophase I, Metaphase I, Anaphase I,Telphase I, Prophase II, Metaphase II, Anaphase II and Telphase II. | Missing 3-4 Demonstrations or explainations of how cells grow and reproduce in terms of Meiosis I and Meiosis II. Includes Prophase I, Metaphase I, Anaphase I,Telphase I, Prophase II, Metaphase II, Anaphase II and Telphase II. | Missing 1-2 Demonstrations or explainations of how cells grow and reproduce in terms of Meiosis I and Meiosis II. Includes Prophase I, Metaphase I, Anaphase I,Telphase I, Prophase II, Metaphase II, Anaphase II and Telphase II. | Demonstrates or explains how cells grow and reproduce in terms of Meiosis I and Meiosis II. Includes Prophase I, Metaphase I, Anaphase I,Telphase I, Prophase II, Metaphase II, Anaphase II and Telphase II. | \_\_\_\_ | |  |  |  |  |  | \_\_\_\_ | |  |  |  |  |  | \_\_\_\_ | |  |  |  |  |  | \_\_\_\_ | |  |  |  |  | **Total---->** | \_\_\_\_ | | |
| **Teacher Comments**: |

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| **NGHS** |
| ***BIOLOGICAL MOLECULES*** |
| |  | | --- | | http://www.teach-nology.com/web_tools/rubrics/general/score.GIF | |
| |  |  | | --- | --- | | Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Teacher: Slater | |
| |  |  | | --- | --- | | Date : \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Title of Work: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | |
| |  |  |  |  | | --- | --- | --- | --- | | |  |  |  | | --- | --- | --- | |  | **Criteria** | **Points** | | | |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | |  | 1 | 2 | 3 | 4 |  | | **Structure of Organic Molecules** | Missing 3 or more Demonstrations or explainations of the structures of organic molecules in organism to include carbohydrates, proteins, lipids and Nucleic Acids. | Missing 2 Demonstrations or explainations of the structures of organic molecules in organism to include carbohydrates, proteins, lipids and Nucleic Acids. | Missing 1 Demonstration or explaination of the structures of organic molecules in organism to include carbohydrates, proteins, lipids and Nucleic Acids. | Demonstrates or explains the Structures of organic molecules in organism to include carbohydrates, proteins, lipids and Nucleic Acids. | \_\_\_\_ | | **Function of Organic Molecules** | Missing 3 or more Demonstrations or explainations of the functions of organic molecules in organism to include carbohydrates, proteins, lipids and Nucleic Acids. | Missing 2 Demonstrations or explainations of the functions of organic molecules in organism to include carbohydrates, proteins, lipids and Nucleic Acids. | Missing 1 Demonstration or explaination of the functions of organic molecules in organism to include carbohydrates, proteins, lipids and Nucleic Acids. | Demonstrates or explains the Function of organic molecules in organism to include carbohydrates, proteins, lipids and Nucleic Acids. | \_\_\_\_ | | **Relationship with DNA,Protiens and Amino Acids** | Does not summarize the relationship among DNA, proteins and amino acids in carrying out the work of cells and how this is similar in all organisms | Vaguely summarizes the relationship among DNA, proteins and amino acids in carrying out the work of cells and how this is similar in all organisms | Generally summarizes the relationship among DNA, proteins and amino acids in carrying out the work of cells and how this is similar in all organisms | Clearly summarizes the relationship among DNA, proteins and amino acids in carrying out the work of cells and how this is similar in all organisms | \_\_\_\_ | |  |  |  |  |  | \_\_\_\_ | |  |  |  |  |  | \_\_\_\_ | |  |  |  |  | **Total---->** | \_\_\_\_ | | |
| **Teacher Comments**: |

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| |  | | --- | | **NGHS** | | ***HUMAN ACTIVITIES ON THE ENVIRONMENT*** | | |  | | --- | | http://www.teach-nology.com/web_tools/rubrics/general/score.GIF | | | |  |  | | --- | --- | | Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Teacher: Slater | | | |  |  | | --- | --- | | Date : \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Title of Work: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | | | |  |  |  |  | | --- | --- | --- | --- | | |  |  |  | | --- | --- | --- | |  | **Criteria** | **Points** | | | |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | |  | 1 | 2 | 3 | 4 |  | | **Impacts on the Environment** | Demonstrates all but three of the following: population growth, technology, consumption of resources and production of waste. | Demonstrates all but two of the following: population growth, technology, consumption of resources and production of waste. | Demonstrates all but one of the following: population growth, technology, consumption of resources and production of waste. | Demonstrates population growth, technology, consumption of resources and production of waste. | \_\_\_\_ | | **Impact on North Carolina.** | Shows impact on North Carolina with three or more exemption examples in population growth, technology, consumption of resources and production of waste | Shows impact on North Carolina with two exemption examples in population growth, technology, consumption of resources and production of waste | Shows impact on North Carolina with one exemption examples in population growth, technology, consumption of resources and production of waste | Shows impact on North Carolina with examples in population growth, technology, consumption of resources and production of waste | \_\_\_\_ | |  |  |  |  |  | \_\_\_\_ | |  |  |  |  |  | \_\_\_\_ | |  |  |  |  |  | \_\_\_\_ | |  |  |  |  | **Total---->** | \_\_\_\_ | | | | **Teacher Comments**: | |

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| **NGHS** |
| ***BIOCHEMICAL PROCESSES*** |
| |  | | --- | | http://www.teach-nology.com/web_tools/rubrics/general/score.GIF | |
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| |  |  | | --- | --- | | Date : \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Title of Work: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | |
| |  |  |  |  | | --- | --- | --- | --- | | |  |  |  | | --- | --- | --- | |  | **Criteria** | **Points** | | | |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | |  | 1 | 2 | 3 | 4 |  | | **Photosynthesis and Cellular Respiration** | Does not or is unclear in the analysis of photosynthesis and cellular respiration in terms of how energy is stored, released, and transferred within and between these systems. | Vaguely analyzes photosynthesis and cellular respiration in terms of how energy is stored, released, and transferred within and between these systems. | Generally analyzes photosynthesis and cellular respiration in terms of how energy is stored, released, and transferred within and between these systems. | Clearly analyzes photosynthesis and cellular respiration in terms of how energy is stored, released, and transferred within and between these systems. | \_\_\_\_ | | **Provides examples of Photosynthesis and Cellular Respiration.** | Provides no or unclear examples of photosynthesis and cellular respiration in terms of how energy is stored, released, and transferred within and between these systems. | Provides vague examples of photosynthesis and cellular respiration in terms of how energy is stored, released, and transferred within and between these systems. | Provides general examples of photosynthesis and cellular respiration in terms of how energy is stored, released, and transferred within and between these systems. | Provides clear examples of photosynthesis and cellular respiration in terms of how energy is stored, released, and transferred within and between these systems. | \_\_\_\_ | |  |  |  |  |  | \_\_\_\_ | |  |  |  |  |  | \_\_\_\_ | |  |  |  |  |  | \_\_\_\_ | |  |  |  |  | **Total---->** | \_\_\_\_ | | |
| **Teacher Comments**: |