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| <h1 style="writing-mode: vertical-rl; transform: rotate(180deg);">Cross Disciplinary Core Ideas</h1> | <p>Independently demonstrate knowledge of how plants that depend on water and light to grow.</p> | <p>Demonstrates knowledge of how plants depend on water and light to grow.</p> | <p>Provide some explanation of how plants depend on water and light to grow.</p> | <p>Has little understanding how plants depend on water and light to grow.</p> |
| | <p>Prove how plants depend on pollination and to move around their seeds.</p> | <p>Compare/ contrast how various plants depend on animals for pollination or move around their seeds.</p> | <p>Usually recognizes how various plants depend on animals for pollination or move around their seeds.</p> | <p>Does not understand how various plants depend on animals for pollination or to move around their seeds.</p> |
| | <p>Utilize knowledge of many different kinds of living things in any area, and they exist in different places on land and in water.</p> | <p>Differentiate between the many different kinds of living things in any area, and they exist in different places on land and in water.</p> | <p>Can list some differences between the kinds of living things in any area, and they exist in different places on land and in water.</p> | <p>Unsuccessfully attempts to list differences between the kinds of living things in any area, and they exist in different places on land and in water.</p> |
| | <p>Create designs that convey through sketches, drawings, or physical models, which communicate ideas for a problem’s solution to other people.</p> | <p>Compare how designs can be conveyed through sketches, drawings, or physical models which are useful in communicating ideas for a problem’s solution to other people.</p> | <p>Partially understands how to convey through sketches, drawings, or physical models the representation which partially communicates ideas for a problem’s solution to other people.</p> | <p>Has little understanding of how to convey through sketches, drawings, or physical models ways to communicate ideas for a problem’s solution to other people.</p> |
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| Science and Engineering Practices | <p>Collaboratively plan, analyze, and apply data produced during an investigation to serve as a basis for evidence to answer a question.</p> | <p>Plan and conduct an investigation collaboratively to produce data to serve as the basis for evidence to answer a question.</p> | <p>With assistance, plan and conduct an investigation to produce data to serve as the basis for evidence to answer a question.</p> | <p>Lacks understanding of how to plan or conduct an investigation to produce data to serve as the basis for evidence to answer a question.</p> |
| | <p>Collects and utilizes data from observations (firsthand or from media) to make comparisons.</p> | <p>Conduct observations (firsthand or from media) to collect data which can be used to make comparisons.</p> | <p>Partially conducts observations (firsthand or from media) to collect data which can be used to make comparisons.</p> | <p>Unsuccessfully conducts observations (firsthand or from media) to collect data which can be used to make comparisons.</p> |
| | <p>Independently develops a simple model based on evidence to represent a proposed object or tool</p> | <p>Develop a simple model based on evidence to represent a proposed object or tool.</p> | <p>Partially develops a simple model based on evidence to represent a proposed object or tool.</p> | <p>Unsuccessfully attempts to develop a simple model based on evidence to represent a proposed object or tool.</p> |
| | <p>Articulates and utilizes empirical evidence when making observations about the world.</p> | <p>Articulates patterns and order when making observations about the world.</p> | <p>Limited articulation of patterns and order when making observation about the world.</p> | <p>Lacks understanding of patterns and order making observations about the world.</p> |

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| Literacy | <p>Organizes and participates in shared research and writing projects.</p> | <p>Participate in shared research and writing projects.</p> | <p>Partially participates in shared research and writing projects.</p> | <p>Lacks participation in shared research and writing projects.</p> |
| | <p>Analyzes and utilizes information from experiences or gathers information from provided sources to answer a question.</p> | <p>Recall information from experiences or gather information from provided sources to answer a question.</p> | <p>With assistance can recall experiences or gather information from provided sources to answer a question.</p> | <p>Communicates non-relevant experiences or is unable to gather information from provided sources to answer a question.</p> |
| | <p>Create, Publish, and present audio recordings of stories or poems; add drawings or other visual displays to stories or recounts of experiences when appropriate to clarify ideas, thoughts, or feelings.</p> | <p>Create audio recording of stories or poems; add drawings or other visual displays to stories or recounts of experiences when appropriate to clarify ideas, thoughts, and feelings.</p> | <p>Partially creates an audio recording of stories or poems; add drawings or other visual displays to stories or recounts of experiences when appropriate to clarify ideas, thoughts, or feelings.</p> | <p>Unsuccessfully attempts to create an audio recording of stories or poems; add drawings or other visual displays to stories or recounts of experiences when appropriate to clarify ideas, thoughts, or feelings.</p> |
| Mathematics | <p>Independently prove and demonstrate how to reason abstractly and quantitatively in a variety of ways.</p> | <p>Reason abstractly and quantitatively.</p> | <p>With assistance, reason abstractly and quantitatively</p> | <p>Has little understanding of how to reason abstractly and quantitatively</p> |
| | <p>Analyze and apply appropriate models with mathematics.</p> | <p>Model with mathematics.</p> | <p>Recognize how to model with mathematics.</p> | <p>Limited knowledge of how to model with mathematics.</p> |
| | <p>Independently demonstrates and utilizes strategically appropriate tools.</p> | <p>Strategically utilizes appropriate tools.</p> | <p>Partially uses appropriate tools.</p> | <p>Lacks understanding of appropriate tools</p> |

Science- Interdependence of Relationships and Ecosystems

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| | <p>Design, create and present a picture graph and a bar graph (with single unit scale) to represent a data set with up to four categories. Solve simple put-together, take-apart, and compare problems utilizing technology as media choice.</p> | <p>Create a picture graph and a bar graph (with single unit scale) to represent a data set with up to four categories. Solve simple put-together, take-apart, and compare problems.</p> | <p>Partially create a picture graph and a bar graph (with single unit scale) to represent a data set with up to four categories. Solve a simple put-together, take-apart, and compare problems.</p> | <p>Imprecise knowledge of how to create a picture graph and a bar graph (with single unit scale) to represent a data set with up to four categories. Is unable to solve simple put-together, take-apart, and compare problems.</p> |
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