Charting My Progress – with **Grade 4-5 Science**

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| **Developing (1)** | **Proficient (2)** | **Distinguished (3)** |
| I can identify appropriate Metric/English units, variables, instruments and models.  I can recognize hypotheses, predictions, inferences and conclusions.  Label models and recognize properties of force, motion, energy and matter.  I can identify cell structures, structures of plants and animals.  I can identify components of ecosystems, including native Virginia organisms.  I can label or identify aspects of:   * Earth- space systems and cycles, * characteristics of oceans, weather instruments, * rock types, and * Earth- moon-sun system. | I can interpret scientific investigations.  I can explain processes using variables, Metric/English units, instruments, models, inferences and conclusions.  I can describe models of waves and circuits.  I can contrast and compare properties of force, motion, energy and matter.  I can classify and explain the life processes and living systems which include plants, ecosystems, cells, and plant and animal resources of Virginia.  I can describe Earth-space systems and cycles using:   * weather phenomena, * characteristics of the ocean, * changing of Earth’s surface.   I can explain the relationship between the Earth-moon- sun and solar system. | I can design scientific investigations, create models, summarize information, and make conclusions and inferences.  I can construct models.  I can analyze and summarize properties, including the interactions and relationships between force, motion, energy and matter.  I can summarize cell structures and life processes of plants and ecosystems.  I can make inferences and conclusions about the characteristics of organisms, which include native Virginia plants and animals.  I can evaluate Earth-space systems and cycles to make inferences and conclusions about:   * Earth-moon-sun relationships, * the characteristics of terrestrial and ocean ecosystems, and * the human impact on Earth’s changing surface. |

Charting My Progress – with **Grade 6-7-8 Science**

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| **Developing (1)** | **Proficient (2)** | **Distinguished (3)** |
| I can identify the components of a scientific investigation, the appropriate tools, and the techniques needed to reach valid conclusions using the nature of science.  I can define relationships among force, motion, energy, and matter.  I can identify organisms by their distinguishing characteristics and their relationships within the environment.  I can define the interactions and interdependence among the living and nonliving factors in ecosystems.  I can state factors that affect Earth.  I can identify interactions within our solar system. | I can demonstrate the ability to perform a scientific investigation using the appropriate tools and techniques to reach valid conclusions using the nature of science.  I can describe and interpret the relationships among force, motion, energy, and matter.  I can classify and describe organisms by their distinguishing characteristics and their relationships within the environment.  I can categorize interactions and interdependence among the living and nonliving factors in ecosystems.  I can explain factors that affect Earth.  I can distinguish interactions within our solar system. | I can design and evaluate a scientific investigation using the appropriate tools and techniques to communicate valid conclusions using the nature of science.  I can analyze and predict the relationships among force, motion, energy, and matter.  I can differentiate and categorize organisms by their distinguishing characteristics and their relationships within the environment.  I can analyze and predict interactions and interdependence among the living and nonliving factors in ecosystems.  I can summarize factors that affect Earth.  I can differentiate interactions within our solar system. |