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

|  |  |  |
| --- | --- | --- |
| **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**

|  |  |  |
| --- | --- | --- |
| **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.  |