# Challenger Learning Center
# Rendezvous With A Comet Mission

## Sunshine State Standards

| | | | Life Support Officer | Remote Officer | Probe Officer | Medical Officer | Isolation Officer | Navigation Officer | Communication Offic | Data Officer |
|---|---|---|---|---|---|---|---|---|---|---|
| | **Science Grades 3-5** | | | | | | | | | |
| SC.A.1.2.1 | The student determines that the properties of materials (e.g. density and volume) can be compared and measured (e.g., using rulers, balances, and thermometers). | | X | X | X | | X | | | |
| SC.A.1.2.3 | The student knows that the weight of an object always equals the sum of its parts. | | | | X | | | | | |
| SC.H.1.2.1 | The student knows that it is important to keep accurate records and descriptions ot provide information and clues on causes of discrepancies in repeated experiments. | X | X | X | X | X | X | X | X | X |
| SC.H.1.2.2 | The student knows that a successful method to explore the natural world is to observe and record, and then analyze and communicate the results. | X | X | X | X | X | X | X | X | X |
| SC.H.1.2.3 | The student knows that to work collaboratively, all team members should be free to reach, explain, and justify their own individual conclusions. | X | X | X | X | X | X | X | X | X |
| SC.H.1.2.4 | The student knows that to compare and contrast observations and results is an essential skill in science. | | | | | | | | | |
| SC.H.1.2.5 | The student knows that a model of something is different from the real thing, but can be used to learn something about the real thing. | X | X | X | X | X | X | X | X | X |
| SC.H.3.2.2 | The student knows that data are collected and interpreted in order to explain an event or concept. | X | X | X | X | X | X | X | X | X |
| SC.H.3.2.4 | The student knows that through the use of science processes and knowledge, people can solve problems, make decisions, and form new ideas. | X | X | X | X | X | X | X | X | X |
| | **Science Grades 6-8** | | | | | | | | | |
| SC.A.1.3.1 | The student identifies various ways in which substances differ (e.g. mass, volume, shape, density, texture, and reaction to temperature and light). | | X | X | X | | | | | |
| SC.C.1.3.1 | The student knows that the motion of an object can be described by its position, direction of motion, and speed. | | | | | | | X | | |
| SC.H.1.3.4 | The student knows that accurate record keeping, openness, and replication are essential to maintaining an investigator's credibility with other scientists and society. | X | X | X | X | X | X | X | X | X |
| SC.H.3.3.7 | The student knows that computers speed up and extend people's ability to collect, sort, and analyze data; prepare research reports; and share data and ideas with others. | X | X | X | X | X | X | X | X | X |

| | Mathematics | All Stations | Life Support Officer | Remote Officer | Probe Officer | Medical Officer | Isolation Officer | Navigation Officer | Communication Officer | Data Officer |
|---|---|---|---|---|---|---|---|---|---|---|
| MA.A.3.3.3 | The student adds, subtracts, multiplies, and divides whole numbers, decimals, and fractions, including mixed numbers, to solve real-world problems, using appropriate methods of computing, such as mental mathematics, paper and pencil, and calculator. | | X | X | | X | X | | | |
| MA.B.1.3.4 | The student constructs, interprets, and uses scale drawings such as those based on number lines and maps to solve real-world problems. | | | | | | | X | | |
| MA.B.3.3.1 | The student solves real-world and mathematical problems involving estimates of measurements including length, time, weight/mass, temperature, money, perimeter, area and volume, in either customary or metric units. | | | | | | | X | | |
| MA.B. 4.3.2 | The student selects and uses appropriate instruments, technology, and techniques to measure quantities in order to achieve specified degrees of accuracy in a problem situation. | | X | | | X | | | | |
| MA.C.3.3.1 | The student represents and applies geometric properties and relationships to solve real-world and mathematical problems. | | | | | | | X | | |
| MA.C.3.3.2 | The student creates and interprets tables, graphs, equations, and verbal descriptions to explain cause-and-effect relationships. | | | | | | | X | | |
| | | | | | | | | | | |
| | Language Arts | | | | | | | | | |
| LA.A.1.3.3 | The student demonstrates consistent and effective use of interpersonal and academic vocabularies in reading, writing, listening, and speaking. | | | | | | | X | X | |
| LA.A.2.3.1 | The student determines the main idea or essential message in a text and identifies relevant details and facts and patterns of organization. | | X | X | | X | X | | | |
| LA.A.2.3.5 | The student locates, organizes, and interprets written information for a variety of purposes, including classroom research, collaborative decision making, and performing a school or real-world task. | | X | X | | X | X | | | |
| LA.B.2.3.4 | The student uses electronic technology including databases and software to gather information and communicated new knowledge. | X | X | X | X | X | X | X | X | X |
| LA.C.1.3.1 | The student listens and uses information gained for a variety of purposes, such as gaining information from interviews, following directions, and pursuing a personal interest. | X | X | X | X | X | X | X | X | X |