



The SpaceOLÉ curriculum correlates with the National Science Education Standards and the Florida Sunshine State Science Standards assessed by the Florida Comprehensive Assessment Test (FCAT). For your reference, the standards are listed below, and can be used in your lesson plans in correlation with your district's curriculum.

## National Science Education Standards, Grades 5-8

<p><b>Content Standard D: Earth and Space Science</b>            D1: Energy in the Earth System            D2: Geochemical Cycles            D3: Origin and Evolution of the Earth System            D4: Origin and Evolution of the Universe</p>
<p><b>Content Standard E: Science and Technology</b>            E1: Abilities of Technological Design</p>
<p><b>Content Standard F: Science in Personal and Social Perspective</b>            F1: Personal and Community Health            F3: Natural Resources            F4: Environmental quality            F5: Natural and Human-Induced Hazards            F6: Science and Technology in Local, National, and Global Challenges</p>

## Florida Sunshine State Standards, Grades 6-8

### Strand A: The Nature of Matter

<p><b>Standard 1</b>            (SC.A.1.3.2): Understands the difference between weight and mass.</p> <p><b>Standard 2</b>            (SC.A.2.3.3): Knows that radiation, light and heat are forms of energy used to cook food, treat diseases, and provide energy.</p>
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### Strand B: Energy

<p><b>Standard 1</b>            (SC.B.1.3.1): Identifies forms of energy and explains that they can be measured and compared.            (SC.B.1.3.3): Knows the various forms in which energy comes to Earth from the sun.            (SC.B.1.3.5): Knows the processes by which thermal energy tends to flow from a system of higher temperature to a system of lower temperature.</p>
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### Strand C: Force and Motion

<p><b>Standard 1</b>            (SC.C.1.3.1): Knows that the motion of an object can be described by its position, direction of motion, and speed.</p> <p><b>Standard 2</b>            (SC.C.2.3.1): Knows that many forces act at a distance (e.g. gravitational).            (SC.C.2.3.7): Knows that gravity is a universal force that every mass exerts on every other mass.</p>
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### Strand D: Processes that Shape the Earth

**Standard 1**

(SC.D.1.3.1): Knows that mechanical and chemical activities shape and reshape the Earth's land surface by eroding rock and soil in some areas and depositing them in other areas.

(SC.D.1.3.5): Understands concerns of time and size relating to the interaction of Earth's processes.

**Standard 2**

(SC.D.2.3.1): Understands that quality of life is relevant to personal experience.

(SC.D.2.3.2): Knows the positive and negative consequences of human action on the Earth's system.

### Strand E: Earth and Space

**Standard 1**

(SC.E.1.3.1) Understands the vast size of our Solar System and the relationship of the planets and their satellites.

(SC.E.1.3.2) Knows that available data from various satellite probes show the similarities and differences among planets and their moons in the Solar System.

### Strand G: How Living Things Interact With Their Environment

**Standard 1**

(SC.G.1.3.5) Knows that life is maintained by a continuous input of energy from the sun by the recycling of the atoms that make up to molecules of living organisms.

**Standard 2**

(SC.G.2.3.1) Knows that some resources are renewable are nonrenewable.

(SC.G.2.3.2) Knows that all biotic and abiotic factors are interrelated and that if one factor is changed or removed, it impacts the availability of other resources within the system.

### Strand H: The Nature of Science

**Standard 1**

(SC.H.1.3.6) Recognizes the scientific contributions that are made by individuals of diverse backgrounds, interests, talents, and motivations.

**Standard 3**

(SC.H.3.3.4) Knows that technological design should require taking into account constraints such as natural laws, the properties of the material used, and economic, political, social, ethical, and aesthetic values.

(SC.H.3.3.5) Understands that contributions to the advancement of technology have been made by different kinds of people, in different cultures, at different times, and are an intrinsic part of the development of human culture.