



Falcon International School

Course Description First and Second Grades

Teacher: Miss Jaclyn Lyons

Duration: 2009-2010

Science

The goal of this course is to develop an understanding of the interdependence of all organisms and the need for conserving natural resources. This year the science curriculum includes a developmental approach to three major areas of science: physical science, earth science, and life science. Additionally, students engage in investigation and experimentation activities to develop strong scientific thinking skills. In physical science, motion and matter are the major topics of study. Students learn that different forces cause changes in the motion of objects. They gain an understanding that matter can change from one form to another. As a basis for understanding earth science, students study the earth to learn that it is made of materials that have distinct properties that can be observed. They also learn that the earth provides natural resources that are necessary for human activities. As students explore life science, they learn that living things grow and change and that sequential stages vary in plants and animals. Students engage in assessment activities that require making and recording observations to reach logical conclusions.

Content

- Unit A- Living and Nonliving things
- Unit B- Homes for Living Things
- Unit C- Our Earth
- Unit D- Weather and Space
- Unit E- Exploring Matter
- Unit F- Energy in Motion

After successfully completing this course, the student will –

- Analyze the principles of heredity and related concepts
- Represent the structure and function of cells and organisms.
- Understand biological evolution and the diversity of life
- Apply relationships among organisms and their physical environment
- Understand Earth's composition and structure
- Understand atmospheric processes and the water cycle.
- Understand the composition and structure of the universe and the Earth's place in it
- Analyze the structure and properties of matter
- Specify the sources and properties of energy.
- Demonstrate forces and motion.

Essential questions that will guide this course include –

- How do living and non living things differ?
- What basic essentials do living things need?
- How do living things change and move through cycles in life?
- How do living things and their environments interact and depend on each other?

- How do my own actions ensure survival?
- Why do various living things depend on each other for survival?
- How does the earth supply us with valuable resources?
- Why is important to protect the Earth's resources?
- What makes up the surface of the earth?
- What is weather? Why does it change?
- How does water move through our environment?
- Why does the moon change every night?
- What is matter and where can I find it?
- How are solids, liquids, and gases different?
- Why does a liquid sometimes change to a solid or gas?
- How is energy made?
- How can I make sounds? And why are these sounds different?
- How do things move?
- How does a magnet work?