Sixth Grade Science Curriculum Teacher: Rosemary Calvert

St. Joseph School

2017 - 2018

**Course Description**: The Sixth Grade Science curriculum is divided into three parts: **Earth Science** which explores the major components of the universe and how they affect the physical phenomena of the Earth**;**  **Life Science** which explores the interdependence of living organisms with their abiotic environment factors of the Earth : and **Physical Science**  which explores energy and forces in nature that affect biotic and abiotic factors on our planet. The Physical Sciences, Earth Sciences, and Life Sciences will be explored and further expanded in 7th Grade.

|  |  |  |
| --- | --- | --- |
| **Week** | **Date** | **Topic** |
| 1 | 8/8- 8/11 | Orientation of Science Classroom, Science Safety Rules, Scientific Method, Controls and Variables, Tools of Science, SI Units |
| 2 | 8/14 - 8/18 | Earth In Space: Sun – Earth – Moon System, the Solar System |
| 3 | 8/21 - 8/25 | SOLAR ECLIPSE 8/21 Earth In Space: Stars and Galaxies |
| 4 | 8/28- 9/1 | Our Planet Earth: Atmosphere, Geosphere, Hydrosphere |
| 5 | 9/4 - 9/8 | Our Planet Earth: Water Cycle, Geochemical Cycles, Rock Cycle |
| 6 | 9/11 - 9/15 | Earth’s Dynamic Surface: Plate Tectonics , Formation of Landforms |
| 7 | 9/18 - 9/22 | Changing Earth’s Surface: Physical and Chemical Weathering |
| 8 | 9/25 – 9/29 | Natural Resources: Nonrenewable Energy Resources |
| 9 | 10/2- 10/6 | Renewable Energy Resources |
|  | 10/9 – 10/13 | FALL BREAK |
| 10 | 10/16- 10/20 | Classification of Living Things |
| 11 | 10/23 - 10/27 | Cells |
| 12 | 10/30-11/3 | Inheritance and Traits |
| 13 | 11/6- 11/10 | Adaptations in Species |
| 14 | 11/13-11/17 | Natural Selection |
| 15 | 11/20 -11/21 | Natural Selection |
|  | 11/22 – 11/24 | THANKSGIVING HOLIDAY |
| 16 | 11/27-11/30 | Plant Diversity, Plant Reproduction |
| 17 | 12/4 - 12/8 | Photosynthesis and Cellular Respiration, Animals |
| 18 | 12/11 - 12/15 | Animal Diversity, Midterm Review |
| 19 | 12/18 -12/21 | Midterm Review and Midterm Exams |
|  | 12/22 – 1/5/2018 | CHRISTMAS BREAK |
| 20 | 2018  1/8 – 1/12 | Interactions of Life: Ecosystems, Habitats |
| 21 | 1/15 - 1/19 | Relationships within Ecosystems |
| 22 | 1/22-1/26 | Matter and Energy in Ecosystems |
| 23 | 1/29 - 2/2 | SCIENCE FAIR 1/31 Matter and Atoms: Substances and Mixtures |
| 24 | 2/5-2/9 | Matter and Atoms: Structure of the Atom |
| 25 | 2/12 - 2/16 | Matter and Its Properties: Solid, Liquid , Gas, Plasma |
| 26 | 2/19 - 2/23 | Physical Change versus Chemical Change |
| 27 | 2/26 - 3/2 | Forms of Energy |
| 28 | 3/5 - 3/9 | Energy Transformation |
|  | 3/12 – 3/16 | SPRING BREAK |
| 29 | 3/19 - 3/23 | Nature of Waves |
| 30 | 3/26 - 3/29 | Nature of Waves, Wavelengths GOOD FRIDAY 3/30 |
| 31 | 4/3 - 4/6 | EASTER MONDAY 4/2 Light and Sound |
| 32 | 4/9 -4 /13 | Light and Sound, Human Eye, Human Ear |
| 33 | 4/16 - 4/20 | Electricity and Magnetism; Electric Charges and Electric Forces |
| 34 | 4/23 - 4/27 | Review of Interactions, Matter, and Atoms |
| 35 | 4/30 - 5/4 | Magnetism |
| 36 | 5/7 - 5/11 | Electric Current and Electric Circuits |
| 37 | 5/14 - 5/18 | Review/Finals |
| 38 | 5/21 - 5/24 | Middle School Final Exams, Field Day |