

SCIENCE

Saint Bernard Catholic School ~ Grade 4 ~ Curriculum Mapping

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| Subject: Science | | Grade :4 | Trimester 1 |
| AUGUST To NOVEMBER | Essential Questions: | | |
| | <ol style="list-style-type: none"> 1. How do I investigate Science? 2. What are the properties of Matter? 3. How does Matter Change? 4. What can be seen under a Microscope? 5. What is Energy? 6. What are the properties of Light and Sound? 7. How does Electronic Power work? 8. What is Motion, speed, and direction? 9. What are the different types of forces? | | |
| Content: | | Objectives: | |
| <ul style="list-style-type: none"> • Scientific Method • Science seeks to meet the needs of people that change over time, as do their demands for new and improved technologies • Engineers improve existing technologies or develop new ones to increase • Changes of Matter from one state to another from physically or chemically • Atoms, elements and particles • Forms of Energy its characteristics • Renewable and nonrenewable forms of energy • Properties of light and sound; speed, reflection and refraction. • Electric charges, magnetic forces and electric currents; creation of electric power. • Motion, speed, and direction and its prediction; components of waves and how friction causes things to stop. • Types of Forces and their effects on objects | | <ol style="list-style-type: none"> a. Explain the Scientific Method b. Describe the properties of Matter c. Describe the Changes of Matter d. Explain how to use a Microscope e. Explain what is Energy f. Explain what is Light and Sound g. Describe how Electronic power work h. Explain what is motion i. Explain what is speed j. Explain what is direction k. Describe different types of forces | |
| Assessments: | | Materials: | |
| <ul style="list-style-type: none"> • Weekly Quizzes/ Unit tests • Student power point presentations • Science fair based on scientific method • Cornell Notes in notebooks • Primary Analysis Tool • KIM Tool | | <ul style="list-style-type: none"> • Textbook/supplemental resource materials with text • Interactive notebook • Power points • You Tube videos • Art supplies/construction paper • Microscopes/magnifying glasses • Microscopes • Thermometers | |

| Subject: Science | | Grade :4 | Trimester 2 |
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| DECEMBER to MARCH | Essential Questions: | | |
| | <ol style="list-style-type: none"> 1. How does the Earth Change? 2. What are the characteristics of Earths body of water? 3. What are the different types of soil organism? 4. What is the Water cycle? 5. What is a Natural Disaster? 6. What are Natural Resources? 7. What are the Characteristics of Celestial bodies? 8. What is the relationship between science and technology | | |
| Content: | | Objectives: | |
| <ul style="list-style-type: none"> • The Earths constant change by waves, weather, and shifting landmasses • The forms of life throughout Earths Oceans, rivers and streams. • Organisms that affect Soil and how soil affects growing plants. • Weather patterns, seasons and meteorology • Types of Natural Disasters and their effects on living things and their environment • Natural Resources improve quality of life; protecting and conserving natural resources. • Celestial Bodies of Stars, Moons and planets our solar system • Relationship between Earth, the sun, moon, and other planets. Gravity and Earths tilt affect regions on the Earth • Relationship between Science and Technology to support agriculture, human disabilities, and entertainment by researchers and scientists. | | <ol style="list-style-type: none"> a. Describe Earths Shape b. Explain Earth’s Oceans and Waterways c. Explain the Properties of Soil d. Explain how the Water Cycle works e. Describe the various types of Natural Disasters f. Explain how Natrual resources improve the quality of Life g. Describe the types of Celestial bodies in the solar system h. Explain Earths place in the Solar System i. Explain the role of Science and Technology in Society | |
| Assessments: | | Materials: | |
| <ul style="list-style-type: none"> • Weekly Quizzes/ Unit tests • Student power point presentations • Science fair based on scientific method • Cornell Notes in notebooks • Primary Analysis Tool • KIM Tool | | <ul style="list-style-type: none"> • Textbook/supplemental resource materials with text • Interactive notebook • Power points • You Tube videos • Art supplies/construction paper • Microscopes/magnifying glasses • Microscopes • Thermometers | |

| Subject: Science | | Grade :4 | Trimester 3 |
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| APRIL to JUNE | Essential Questions: | | |
| | <ol style="list-style-type: none"> 1. What are the structures and functions of living things? 2. What are inherited traits in various living things? 3. What is the importance of genetic diversity? 4. How do living things interact with their environment? 5. Why is Adaptations important? 6. How do plants grow, thrive, and reproduce? 7. What are the characteristics of land animals? 8. What are Extinct and Endangered Species? 9. What are the major organs of the human body? 10. What is the importance of staying healthy and fit? 11. What advances have been made in the science of medicine? | | |
| Content: | | Objectives: | |
| <ul style="list-style-type: none"> • Distinguish similarities and differences among various types of organisms and its parts • Inherited traits in various living things and the importance of genetic diversity to the survival and well being of organisms • Examination of living things in various ecosystems and environments • The Importance of adaptation and Competition for survival • Plants Grow, strive, and reproduce • The importance of plants to people and animals • Characteristics and behavior of land animals to survive in various habitats; including mammals, reptiles, birds, and vertebrates. • Distinguish different animals of extinct and endangered species • The Major Organ systems of the human body • Ways and Benefit of being fit and healthy • The benefits of Medicine | | <ol style="list-style-type: none"> a. Explain what are Cells and organisms b. Explain the difference between inherited traits in various living things. c. Describe what are ecosystems d. Explain the difference between competition and adaption e. Describe various plants in the world f. Explain the kinds of land Animals in the world g. Explain what are Endangered species h. Describe the Human Body Systems i. Explain the importance of being fit and healthy j. Distinguish between Science and Medicine. | |
| Assessments: | | Materials: | |
| <ul style="list-style-type: none"> • Weekly Quizzes/ Unit tests • Student power point presentations • Science fair based on scientific method • Cornell Notes in notebooks • Primary Analysis Tool • KIM Tool | | <ul style="list-style-type: none"> • Textbook/supplemental resource materials with text • Interactive notebook • Power points • You Tube videos • Art supplies/construction paper • Microscopes/magnifying glasses • Microscopes • Thermometers | |