



SAN JUAN DEL SUR DAY SCHOOL



GRADE 5 PROJECT TIME LEARNING OUTCOMES AND UNIT GUIDE

Who We Are

An inquiry into the nature of the self; beliefs and values; personal, physical, mental, social and spiritual health; human relationships including families, friends, communities, and cultures; rights and responsibilities; what it means to be human.

Central idea: Matter changes, and how things change matter

Lines of inquiry: National cultural traditions Mesoamerican cultures Commonalities of people Properties of matter

Physical Science: Properties & Changes of Materials/Matter (MC)

Investigate the characteristics and physical properties of materials in solid, liquid, and gaseous states of matter.

Investigate how reversible and non-reversible changes, including changes of state, alter materials.

SS: Interactions and Interdependence of Nations (IN)

Demonstrate an understanding of the pre-Columbian settlements; their heritage and traditions in a country of your choosing. (eg. Nicaragua, Canada, USA).

Where We Are in Place and Time

An inquiry into orientation in place and time; personal histories; homes and journeys; the discoveries, explorations and migrations of humankind; the relationships between and the interconnectedness of individuals and civilizations, from local and global perspectives.

Central idea: Histories and cultures influence our present and future lives.

Lines of inquiry: Key characteristics of a cultural group How early explorers shape the early histories of a location How cultures change from the past to the present Properties of air Water cycle

Earth & Space Science: Environmental Science: Water & Air (WA)

Identify the properties of air, its properties and uses. Analyze the water on earth, how it moves between ocean and land through the processes of evaporation and condensation.

Social Studies: Interactions and Interdependence of Nations (IN)

Describe the cooperation and conflict that existed among the Native Americans/indigenous people and between the indigenous nations and the new settlers.

Analyze the evolution of the Nicaragua, USA, Canada, and other countries as a multicultural nations.

How We Express Ourselves

An inquiry into the ways in which we discover and express ideas, feelings, nature, culture, beliefs and values; the ways in which we reflect on, extend and enjoy our creativity; our appreciation for the aesthetic.

Central idea: Demonstrating knowledge through creative expression

Lines of inquiry: How materials are used What is everything made of How the environment impacts people's lives Various ways to demonstrate knowledge

Physical Science: Properties & Changes of Materials/Matter (MC)

Assess how the production, use, and disposal of raw materials and manufactured products affects self, society, and the environment.

Elements and their combinations account for all the varied types of matter in the world. (Periodic Table)

Social Studies: Dynamic Relationships (DR)

Assess the impact of the environment on the lives of people living in Nicaragua and/or other countries.



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How the World Works

An inquiry into the natural world and its laws; the interaction between the natural world (physical and biological) and human societies; how humans use their understanding of scientific principles; the impact of scientific and technological advances on society and on the environment.

Central idea: Mechanisms and the way they work

Lines of inquiry: Moving and lifting Inventing and developing Various forms of energy How machines work and impact the environment The future of Nicaragua

Physical Science: Forces & Simple Machines (FM)

Social Studies: Resources and Wealth (RW)

Analyze the effects of gravitational, magnetic, and mechanical forces, including friction, on the movement of objects.
Assess how natural and man-made forces and simple machines affect individuals, society, and the environment.

Investigate characteristics of simple machines, including levers, wheels and axles, pulleys, inclined planes, screws, and wedges, for moving and lifting loads.

Hypothesize about economic changes that Nicaragua may experience in the future.

How We Organize Ourselves

An inquiry into the interconnectedness of human-made systems and communities; the structure and function of organizations; societal decision-making; economic activities and their impact on humankind and the environment.

Central idea: Systems provide order and organization necessary to survival.

Lines of inquiry: Types of government Citizenship and responsibilities Rights of citizens Government structures Maintaining a healthy body Structures and functions of the major organs Human body systems connectivity

Life Systems: Structures of Living Things (SL)

Social Studies: Power and Authority (PA)

Plants and animals have structures for respiration, digestion, waste disposal, and transport of materials.
Analyze personal and societal requirements for, and the impact of, maintaining a healthy human body.

Investigate the structure, function, and major organs of one or more human body systems such as the digestive, excretory, respiratory, circulatory, nervous, muscular, and skeletal systems.
Assess how multiple human body systems function together to enable people to move, grow, and react to stimuli.

Describe Nicaragua/USA/Canadian and other countries' political evolution, including the course and consequences of revolutions, and the significance of treaties and ruling documents.
Analyze the historic and contemporary relationship of people to land in Nicaragua, USA and other countries.

Sharing the Planet

An inquiry into rights and responsibilities in the struggle to share finite resources with other people and with other living things; communities and the relationships within and between them; access to equal opportunities; peace and conflict resolution.

Central idea: Natural resources exist in different forms and are used and stored within ecosystems.

Lines of inquiry: Forms of energy Reducing our impact Responsible production, use, and disposal of resources

Earth & Space Science: Conservation of Energy & Resources (ER)

Social Studies: Resources and Wealth (RW)

Analyze the long-term impacts on society and the environment of human uses of energy and natural resources, and suggest ways to reduce these impacts.

Identify the various forms of energy (e.g. electrical, chemical, mechanical, heat, light, kinetic.)

Explain the importance of sustainable management of the environment to the future.