



GRADE 6 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: Cultural and social diversity

Lines of inquiry: Personal beliefs and culture Global interdependence Ancient cultures Geology of Nicaragua

Earth & Space Science: Geology (G)	Earth & Space Science: Shaping Earth's Surface- Plate Tectonics (PT)	SS: Interactions and Interdependence of Nations (IN)
Investigate the characteristics and formation of the surface geology of Nicaragua, including soil, and identify correlations between surface geology and past, present, and possible future land uses.	Analyze societal and environmental impacts of historical and current catastrophic geological events, and scientific understanding of movements and forces within Earth's crust. Topography is reshaped by the weathering of rock and soil and by the transportation and deposition of sediment.	Evaluate and represent personal beliefs and values by determining how culture and place influence them. Develop an understanding that global interdependence impacts individual daily life in a selection of countries. Examine the social roles and cultural diversity that existed in ancient civilizations including the Romans, Greeks, Egyptians, Indus Valley, Chinese, and Mesopotamia.

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: Humans' orientation with the Earth and stars

Lines of inquiry: Solar system Diversity of natural environments on ancient civilizations Human strategies for orienting themselves Cosmology

Earth & Space Science: Our Solar System (SS)	Social Studies: Dynamic Relationships (DR)
Research and represent the physical characteristics of the major components of the solar system, including the sun, planets, moons, asteroids, and comets that orbit the sun in predictable paths. Assess the efficacy of various methods of representing and interpreting astronomical phenomena, including phases, eclipses, and seasons.	Evaluate past, current, and possible future contributions of space exploration programs including space probes and human spaceflight, which support living and working in the inner solar system. Analyze the impact of the diversity of natural environments on the ways of ancient civilizations. Appraise the strategies human societies have used to orient themselves within time and place in the natural environment.

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: Humans' creative ideas evolve.

Lines of inquiry: Flight and technology Design Gravity, thrust, drag Historical aspects of technology and innovation

Physical Science: Principles of Flight (FL)	Social Studies: Dynamic Relationships (DR)
Examine connections between human fascination with flight and technologies and careers based on the scientific principles of flight. Design a working prototype of a flying object that meets specified performance criteria.	Investigate how the forces of thrust, drag, lift, and gravity act on living things and constructed devices that fly through the air. Assess technological innovations and the ways they benefited ancient peoples.



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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: Human impact on habitats and uses of natural material.

Lines of inquiry: Diversity of living things Characteristics of vertebrates Various forms of energy Impacts of electricity Simple circuit History of trade

Physical Science: Thermal Energy (TE)	Physical Science: Understanding Electricity (EL)	Social Studies: Resources and Wealth (RW)
Examine how heat moves in a predictable flow from warmer objects to cooler objects until all the objects are at the same temperature.	Assess personal, societal, economic, and environmental impacts of electricity use and propose actions to reduce those impacts. Explain and model the properties of simple series and parallel circuits.	Describe ways ancient peoples exchanged goods and services. Examine and analyze factors that contribute to quality of life, including material and non-material factors.

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: Conflict leads to change.

Lines of inquiry: Rules, laws and governance Power and authority Ancient systems of rule Government structures Taxonomic classification of organisms Behaviors and structures of organisms

Life Systems : Diversity of Living Things (DL)	Social Studies: Power and Authority (PA)
Examine how humans organize understanding of the diversity of living things. Recognize, describe, and appreciate the diversity of living things in local and other ecosystems, and explore related careers. Analyze the characteristics and behaviors of vertebrates (i.e., mammals, birds, reptiles, amphibians, and fish) and invertebrates.	Assess effects of microorganisms on past and present society, and contributions of science and technology to human understanding of microorganisms. Examine and describe structures and behaviors that help individual living organisms survive in their environments in the short term and species of living organisms adapt to their environments in the long term. Examine the relationship between an individual's power and authority and the power and authority of others. Explore examples and explain how people, such as ethnic minority groups, the disabled, youth, and the elderly, may be affected by injustice or abuses of power. Describe the evolution and purpose of rules, laws, and government in ancient civilizations.

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: Our responsibility is the promotion of peaceful collaboration of Earth's limited resources.

Lines of inquiry: Quality of life Material and non-material factors Guiding change Living organisms and microorganisms coexisting in the environment

Life Systems: Ecology & Biodiversity (EB)	Social Studies: Resources and Wealth (RW)
Organisms in ecosystems exchange energy and nutrients among themselves and with the environment.	Contribute to initiating and guiding change in local and global communities regarding environmental, social, and economic sustainability.