

6<sup>th</sup> Grade Science:

Instruction will be guided from the 6<sup>th</sup> Grade Science: Level Red book. The flow of class is usually has the students take notes on day 1 and then a lab/activity to reinforce the material on day 2, for each section. There are 3-4 sections per chapter. At the end of a chapter, students will have 1 review day before that chapter's test. Chapters should be done in less than 2 weeks.

Waves

Students will:

- Explain the relationship between waves, energy, and matter.
- Describe the differences between transverse waves and compressional waves.
- Describe the relationship between the frequency and wavelength of a wave.
- Explain why waves travel at different speeds.
- Explain how waves can reflect from some surfaces.
- Explain how waves change direction when they move from one material to another.
- Describe how waves are able to bend around barriers.

Rocks and Minerals

Students will:

- Identify the difference between a mineral and a rock.
- Describe the properties that are used to identify minerals.
- Explain how extrusive and intrusive igneous rocks are different.
- Describe how different types of sedimentary rocks form.
- Describe the conditions needed for metamorphic rocks to form.
- Explain how all rocks are linked by the rock cycle.

Forces Shaping Earth & Weathering and Erosion

Students will:

- Describe how Earth's interior is divided into layers.
- Explain how plates of Earth's lithosphere move.
- Discuss why Earth's plates move.
- Describe how Earth's mountains form and erode.
- Compare types of mountains.
- Identify the forces that shape Earth's mountains.
- Identify processes that break rock apart.
- Describe process that chemically change rock.
- Explain how Soil evolves
- Identify agents of erosion.
- Describe the effects of erosion.

The Atmosphere in Motion

Students will:

- Explain why air has pressure.
- Describe the composition of the atmosphere
- Describe how energy causes water on Earth to cycle.
- Compare ways that heat is transferred on Earth.
- Describe the formation of different kinds of clouds and precipitation.
- Explain what causes wind.
- Explain the ways that air masses and fronts form.
- Discuss the causes of severe weather.
- Explain how technology is used to monitor and predict weather.

Oceans

Students will:

- State the importance of Earth's Ocean.
- Discuss the Origin of the Ocean's.
- Discuss the composition of seawater.
- Explain how temperature and pressure vary with depth.

- State how wind and Earth's rotation influence surface currents.
- Explain how ocean currents affect weather and climate.
- Describe the causes and effects of density currents.
- Explain how upwelling occurs.
- Describe how wind can form ocean waves.
- Explain the movement of water molecules in a wave.
- Describe how the moon and sun cause Earth's tides.
- List the forces that cause shoreline erosion.
- Describe the characteristics of plankton, nekton, and bottom-dwelling organisms.
- Distinguish among producers, consumers, and decomposers.
- Discuss how energy and nutrients are cycled in the oceans.
- Explain how organisms in the oceans interact in food chains.

### 7<sup>th</sup> Grade Science:

Instruction will be guided from the 7<sup>th</sup> Grade Science: Level green book. The flow of class is usually has the students take notes on day 1 and then a lab/activity to reinforce the material on day 2, for each section. There are 3-4 sections per chapter. At the end of a chapter, students will have 1 review day before that chapter's test. Chapters should be done in less than 2 weeks.

#### Anatomy

Students will:

- Describe the functions of the respiratory system.
- Explain how oxygen and carbon dioxide are exchanged in the lungs and in tissue.
- Identify the pathway of air in and out of the lungs.
- Distinguish between the excretory and urinary systems.
- Describe how the kidneys work.
- Explain what happens when urinary organs don't work.
- Distinguish between the epidermis and dermis of the skin.
- Identify the function of the skin.
- Explain how skin protects the body from disease and how it heals itself.
- Identify the major function of the muscular system.
- Compare and contrast the three types of muscles.
- Explain how muscle action results in the movement of body parts.
- Identify five functions of the skeletal system.
- Compare and contrast movable and immovable joints.
- Describe the basic structure of a neuron and how an impulse moves across a synapse.
- Compare and contrast the central and peripheral nervous systems.
- List the sensory receptors in each sense organ.
- Explain what type of stimulus each sense organ responds to and how.
- Define how hormones function.
- Identify different endocrine glands and the effects of the hormones they produce.
- Describe how a feedback system works in your body.

#### Plants

Students will:

- Identify characteristics common to all plants.
- Explain which plant adaptations make it possible for plants to survive on land.
- Compare and contrast vascular and non-vascular plants.
- Distinguish between characteristics of seedless non-vascular plants and seedless vascular plants.
- Identify the importance of some vascular and non-vascular plants.

- Identify the characteristics of seed plants.
- Explain the structures and functions of roots, stems, and leaves.
- Describe the main characteristics and importance of gymnosperms and angiosperms.
- Compare similarities and differences between monocots and dicots.

### 8<sup>th</sup> Grade Science:

Instruction will be guided from the 8<sup>th</sup> Grade Science: Level Blue book. The First part of the quarter is based around the changing earth and will shift the attention to outer space and how that has changed over time. The flow of class is usually has the students take notes on day 1 and then a lab/activity to reinforce the material on day 2, for each section. There are 3-4 sections per chapter. At the end of a chapter, students will have 1 review day before that chapter's test. Chapters should be done in less than 2 weeks.

Force and Newton's Laws:

Students will:

- Distinguish between balanced and net forces.
- Describe Newton's first law of Motion.
- Explain how friction affects motion.
- Explain Newton's second law of motion.
- Explain why the direction of force is important.
- Identify the relationship between the forces that objects exert on each other.
- Recognize when work is done.
- Calculate how much work is done.
- Explain the relationship between work and power.

Waves, Sound, and Light:

Students will:

- Explain how waves transport energy.
- Describe the properties of waves.
- Describe reflection, refraction, and diffraction of waves.
- Describe how sound waves are produced.
- Explain how sound waves travel through matter.
- Describe the relationship between loudness and sound intensity.
- Explain how humans hear sound.
- Identify the properties of light waves.
- Describe the electromagnetic spectrum.
- Describe the types of electromagnetic waves that travel from the sun to Earth.
- Explain human visions and color perception.

Electricity

Students will:

- Describe how objects can become electrically charged.
- Explain how an electric charge affects other electric charges.
- Distinguish between electric conductors and insulators.
- Describe how electric discharge occurs.
- Relate voltage to the electrical energy carried by an electric current.
- Describe a battery and how it produces an electric current.
- Explain electrical resistance.
- Explain how voltage, current, and resistance are related in an electric current.
- Investigate the difference between series and parallel circuits.
- Determine the electric power used in a circuit.

- Describe how to avoid dangerous electric shock.

### Magnetism

Students will:

- Describe the behavior of Magnets.
- Relate the behavior of magnets to magnetic fields.
- Explain why some materials are magnetic.
- Explain how electricity can produce motion.
- Explain how motion can produce electricity.

### 6<sup>th</sup> Grade Social Studies:

Instruction will be guided from the World Cultures and Geography: Western Hemisphere and Europe book. We will examine at Mexico and Latin America. Students will have graphic organizers to fill out as we read through the book and will be assigned homework once the chapter has been read. Students will work on different projects throughout each chapter to gain a deeper understanding of the concepts presented. Once all sections of a chapter are completed, students will take a unit test.

#### Unit 3: Latin America

Students will:

- Describe and compare the geography of Mexico, Central America, and the Caribbean Islands.
- Identify the climates and vegetation of Mexico, Central America, and the Caribbean Islands.
- Describe the main features of South America's geography.
- Identify the climates and vegetation of South America.
- Describe the Olmec and Mayan civilizations and their significant achievements.
- Describe the Aztec and Inca Civilizations and their significant achievements.
- Summarize the history of Spanish rule in Latin America and its effects on the culture.
- Describe the struggles for independence in Mexico and South America.
- Explain how Mexico established a stable government after gaining independence.
- Analyze the effects the revolution and constitutional change had on the Mexican People and their government.
- Describe the blend of people and lifestyles in Mexico today.
- Identify common themes in works by Mexican artists and writers.
- Summarize the popular celebrations and sports of Mexico.
- Explain how Mexico is building a strong economy.
- Describe the challenges Mexico faces in strengthening its economy.
- Explain the political and economic challenges faced by Central American Countries.
- Describe the people and culture of Central America.
- Explain how Caribbean economies have changes over time.
- Compare the governments of Cuba and Puerto Rico.
- Analyze the influences on Caribbean culture.
- Outline how Brazil changed from Portuguese colony to an independent nation.
- Discuss the challenges faced by the Brazilian government today.
- Explain how people from many places have blended and influenced Brazil's culture.
- Describe the arts and entertainment of Brazil.
- Describe how natural resources have helped Brazil's economy.
- Explain why it is important to preserve the rain forest in Brazil.

6<sup>th</sup> Grade Word Skills:

Instruction will be guided from the Elements of Literature: Spelling Lessons and Activities book. Every week, students will have a list of words to work with. Students will be assigned different tasks (thinking critically, proofreading, sorting, etc.) to help practice and understand the words. At the end of each week, students will take a spelling test to see how well they performed on those week's spelling words.

- Lesson 16: Adding -ed and -ing
- Lesson 18: Noun Suffix -ance/-ence
- Lesson 19: Noun Suffixes -ship, -ment, -ity.
- Lesson 20: Prefix ad- (ac-, as-, af-, ap-)
- Lesson 21: Prefix com- (con-)
- Lesson 22: Unstressed Ending -ant/-ent
- Lesson 24: Spelling Patterns- More VCVWords
- Lesson 25: Mixed Spelling Patterns
- Lesson 26: Unusual Plurals
- Lesson 27: Adjective Suffixes -ive, -ous

6<sup>th</sup> Grade Religion

Instruction will be guided from the 6<sup>th</sup> Grade Catholic Connections book. We will use our Bibles to read scripture and pull out stories to help better illustrate what we are learning from the book. Students will also do different projects (posters, skits, good works, etc.) to help bring what we are learning to life. Each Chapter should take about 2 weeks to complete.

- Chapter 11-Jesus Christ, True God and True Man
- Chapter 12- The Birth of Jesus
- Chapter 13- Jesus Teaches
- Chapter 14- Jesus Heals
- Chapter 15- The Death of Jesus

6<sup>th</sup> Grade Literature:

Instruction will be guided from the 6<sup>th</sup> Grade Elements of Literature Book. Each story will take a little over 1 week to complete. We will read the story and practice the different reading skills associated with that story. Students will have comprehension questions to answer at the end of each short story. This quarter is going to be related to themes within a story and we will examine different forms of poetry at the end of the quarter.

## The All-American Slurp

- Finding theme and evaluating Conclusions
- Everyone is different, but the Same Too (Interview based on short story)
  - o Literary Focus: Subject Versus Theme
  - o Reading Skills: Summarizing

## The Emperor's New Clothes

- Recognize and Evaluating Evidence
- Uniform Style (Article)
  - o Literary Focus: Theme: Getting the Message
  - o Reading Skills: Making Generalizations: Putting it all Together

## Baucis and Philemon

- Evaluating Evidence

- One Child's Labor of Love (Interview)
  - Universal Themes/Metamorphosis
  - Reading Skills: Recognizing Connections

Comparing Literature [Themes within Fairy Tales]

- Rapunzel
- Rumpelstiltskin

Medusa's Head and Perseus and the Gorgon's Head

- Literary Focus: Mythic Heroes
- Reading Skills: Dialogue with Text

Poetry Unit

- Students will read tons of examples of different short poems found in book.
- Students will create and identify what type of poem each one of them wrote.
- Students will find a poem anthology book and pick 2 poems to read from it. They will then need to diagram and critique 4 poems from that anthology.