



6TH GRADE SCIENCE YEAR-AT-A-GLANCE

COURSE LEARNINGS: [6TH GRADE SCIENCE TEKS](#)

GRADING PERIOD	LEARNING TARGETS
1st Nine Weeks	Unit 1: Physical Properties of Matter <ul style="list-style-type: none">• Compare properties of solids, liquids, and gasses• Distinguish between pure substances, homogeneous mixtures, and heterogeneous mixtures• Identify elements of the Periodic Table of Elements by their physical properties• Compare densities of substances
2nd Nine Weeks	Unit 2: Chemical Properties of Matter <ul style="list-style-type: none">• Identify evidence of chemical changes Unit 3: Energy <ul style="list-style-type: none">• Contrast potential energies including elastic, gravitational, and chemical with kinetic energies• Energy conservation through transfers and transformations• Energy and waves Unit 4: Earth's Resources <ul style="list-style-type: none">• Importance of natural resource management• The management of air, water, soil, and energy resources
3rd Nine Weeks	Unit 5: Forces and Motion <ul style="list-style-type: none">• Identify, explain, and apply forces including gravity, friction, magnetism, applied forces, and normal forces• Calculate balanced and unbalanced forces in horizontal and vertical directions• Application of Newton's Third Law of Motion Unit 6: Sun, Earth, and Moon Systems <ul style="list-style-type: none">• Illustrate the causes of seasons• Describe the cause of Earth's tides
4th Nine Weeks	Unit 7: Earth's Structure <ul style="list-style-type: none">• Differentiate and identify between the various components of Earth's internal and external structure• Describe the entire rock cycle including the various geologic processes Unit 8: Characteristics of Organisms and Environments <ul style="list-style-type: none">• Cell origin and theory• Contrast the basic characteristics of organisms Unit 9: Organisms and Environments <ul style="list-style-type: none">• Interactions of organisms, populations, and the factors within their ecosystems• Describe the relationships between organisms• The hierarchical organization of organisms in an ecosystem• Population variations