



Carroll ISD Sixth Grade Science 2021-2022 Year-At-A-Glance

	1 st Grading Period	2 nd Grading Period	3 rd Grading Period	4 th Grading Period
Process Standards	Scientific Investigation and Reasoning: The student uses scientific investigation and reasoning to demonstrate understanding: 6.1AB, 6.2A-E, 6.3A-D, 6.4AB			
TEKS	<u>Scientific Inquiry and Science Safety</u> 6.1A,B 6.2A-E 6.3A-D 6.4A,B <u>Matter</u> 6.5 A, B, C 6.6 A, B, C	<u>Force and Motion</u> 6.8 A, B, C, D, E <u>Energy Sources</u> 6.7 A	<u>Thermal Energy/Energy Transformations</u> 6.9 A, B, C <u>Geology</u> 6.3 B, 6.6 C, 6.10 A, B, C, D <u>Astronomy</u> 6.11 A, B, C	<u>Astronomy (cont)</u> 6.11 A, B, C <u>Organisms and Environments</u> 6.12 A, B, C, D, E, F
Topic Focus	<u>Scientific Inquiry</u> <ul style="list-style-type: none"> ● Identify parts of the scientific method from an investigation. ● Design an investigation using the scientific method. ● Measurement tools and how to read them ● Graphing & interpreting data <u>Matter</u> <ul style="list-style-type: none"> ● Differentiate between mass and weight. ● Physical and Chemical Properties of Matter ● Calculate Density 	<u>Force and Motion</u> <ul style="list-style-type: none"> ● Know the difference between speed, velocity, and acceleration ● Calculate speed using the formula ● Graph results and interpret trends ● Net force: balanced and unbalanced <u>Energy Sources</u> <ul style="list-style-type: none"> ● Research and discuss energy resources based on 	<u>Thermal Energy/Energy Transformations</u> <ul style="list-style-type: none"> ● Thermal energy ● Energy transformations <u>Geology</u> <ul style="list-style-type: none"> ● Classify rocks as metamorphic, igneous, or sedimentary based on the process of their formation. ● Understand that all rocks are made of minerals. ● Identify rocks and minerals based on their physical 	<u>Astronomy (cont)</u> <ul style="list-style-type: none"> ● Research Space Exploration past, present and future ● Connect space exploration with events happening in history <u>Organisms and Environments</u> <ul style="list-style-type: none"> ● The cell is the basis of life. ● Prokaryotic and eukaryotic are the two major types of cells. ● Organisms are divided into different classifications based on their characteristics including the kind of cells they have.

	<ul style="list-style-type: none"> • Chemical and Physical Changes • States of Matter: Solid, Liquid, Gas, and Plasma • Periodic Table • Differentiate between Elements, Atoms, and Compounds 	<p>their advantages and disadvantages</p>	<p>properties: hardness, luster, color, and streak.</p> <ul style="list-style-type: none"> • Structural layers of the Earth and characteristics of each • Identify on a map the major tectonic plates • Land formations and events caused by tectonic plates <p><u>Astronomy</u></p> <ul style="list-style-type: none"> • Rotation and Revolution • Location, properties, and movements of all 8 planets in relation to each other & the Sun • Inner vs. Outer Planets • Satellites (moons), asteroids, meteoroids, meteors, and meteorites 	<ul style="list-style-type: none"> • Know the different characteristics and examples of each kingdom • Heterotrophic vs. autotrophic • An ecosystem contains many different organisms. • Organisms are classified. • Differentiate between biotic and abiotic organisms • Know what domains, ecosystems, and biomes are
<p>Additional Resources</p>	<p>STEMscopes</p>			

Bold indicates Power Standards: 6.5A, 6.6A, 6.6B, 6.8A, 6.8C, 6.9A, 6.9C, 6.10B, 6.11A, 6.12D