



Carroll ISD 8th Grade College Ready/Advanced/GT Science 2021-2022 Year-At-A-Glance

| | 1 st Grading Period | 2 nd Grading Period | 3 rd Grading Period | 4 th Grading Period |
|---|---|--|---|---|
| <p>Grade 8 science is interdisciplinary in nature; much of the content focus is on earth and space science. The state standards transcend disciplinary boundaries and include change and constancy, patterns, cycles, systems, models, and scale.</p> | | | | |
| TEKS | Nature of Science: 8.1 A-B, 8.2 A-E, 8.3 A-D, 8.4 A-B Measurement & Data: 8.2 C,D,E, 8.3 B,C, 8.4 A Ecosystems: 8.11 A, B, C Earth/Moon/Sun Systems: 8.7 A, B, C | The Universe: 8.3D, 8.8 A, B, C, D Earth's Oceans and Atmosphere: 8.10 A, B,C | Processes that Shape the Earth : 8.3 B, D, 8.9A, B, C Introduction to Chemistry: 8.5 A, B, C,D,E | Forces and Motion Matter: 8.3 D, 8.6 A, B, C |
| Topic Focus | Nature of Science <ul style="list-style-type: none"> ● Science safety, scientific investigations, and scientific knowledge Measurement and Data <ul style="list-style-type: none"> ● Science data, scientific tools and measurement | The Universe <ul style="list-style-type: none"> ● Origin & structure of the universe ● Stars & their life cycle ● Components of the universe | Processes that Shape the Earth <ul style="list-style-type: none"> ● Theory of plate tectonics ● Landforms ● Weathering, erosion & deposition ● Topographic maps and satellite images | Forces and Motion Matter <ul style="list-style-type: none"> ● Balanced & unbalanced forces ● Newton's Laws of Motion |

| | | | | |
|--|--|--|--|---|
| | <p>Ecosystems</p> <ul style="list-style-type: none"> • Ecosystems, ecology, environmental change, and organism populations <p>Earth/Moon/Sun Systems</p> <ul style="list-style-type: none"> • Earth's days, years & seasons • Moon phases, tides & eclipses | <p>Earth's Oceans and Atmosphere</p> <ul style="list-style-type: none"> • Wind and ocean currents • Weather patterns, weather maps, & weather predictions | <p>Introduction to Chemistry</p> <ul style="list-style-type: none"> • Structure of the Atom • Periodic table • Electrons, chemical bonding, & chemical reactions | |
| <p>Resources</p> <p><i>8th Grade Science Fusion</i> Textbook accessible through ClassLink</p> | <p>Nature of Science - Unit 1</p> <p>Measurement and Data - Unit 2</p> <p>Ecosystems - Unit 9</p> <p>Earth/Moon/Sun Systems - Unit 5</p> | <p>The Universe - Unit 6</p> <p>Earth's Oceans and Atmosphere - Unit 8</p> | <p>Processes that Shape the Earth - Unit 7</p> <p>Introduction to Chemistry - Unit 3</p> | <p>Forces and Motion</p> <p>Matter - Unit 4</p> |

Power Standards: 8.5A, 8.5B, 8.5C, 8.5E, 8.6A, 8.6C, 8.7B, 8.8A, 8.9B, 8.11B