

Fall Semester 2020

1 st Grading Period (27 Days)	2 nd Grading Period (24 Days)	3 rd Grading Period (30 Days)
<p>Nature of Science/Measurement (11 Days)</p> <ul style="list-style-type: none"> ○ Lab safety ○ Lab equipment/Bunsen burners ○ Scientific method ○ Metrics/Dimensional analysis ○ Groups 1A and 2A <p><i>TEKS</i> 1A-1C, 2A-2I, 3A-3F, 5B</p> <p>Matter (9 Days)</p> <ul style="list-style-type: none"> ○ Chemical and Physical Properties and Changes ○ Classification of matter ○ Phases of matter ○ Separation techniques ○ Density ○ Groups 7A, 8A, metalloids <p><i>TEKS</i> 1A-1C, 2A-2I, 4A-4D, 5B</p>	<p>Data Analysis (3 Days)</p> <ul style="list-style-type: none"> ○ Graphing ○ Significant figures in measurement ○ Scientific notation ○ Accuracy, precision, % error ○ Transition metals and nonmetals <p><i>TEKS</i> 1A-1C, 2A-2I, 5B</p> <p>Atomic Theory (9 Days + PSAT)</p> <ul style="list-style-type: none"> ○ History of atomic theory ○ Atomic structure ○ Atomic number/Mass number ○ Isotopes/Average atomic mass ○ Metals <p><i>TEKS</i> 1A-1C, 2A-2I, 3D, 3F, 5B, 6A, 6C</p>	<p>Light and Electrons (6 Days)</p> <ul style="list-style-type: none"> ○ Light and waves ○ Electron configurations ○ Electron dot diagrams <p><i>TEKS</i> 1A-1C, 2A-2I, 3D, 3F, 6B, 6D</p> <p>Types of Bonding and VSEPR (12 Days)</p> <ul style="list-style-type: none"> ○ Ionic bonding ○ Covalent bonding ○ Metallic bonding ○ VSEPR ○ Lewis structures <p><i>TEKS</i> 1A-1C, 2A-2I, 7C-7E</p> <p>Naming and Formulas (7 Days)</p> <ul style="list-style-type: none"> ○ Ionic compounds ○ Covalent compounds <p><i>TEKS</i> 1A-1C, 2A-2I, 7A, 7B</p>

Data Analysis (7 Days)

- Graphing
- Significant figures in measurement
- Scientific notation
- Accuracy, precision, % error
- Transition metals and nonmetals

TEKS
1A-1C, 2A-2I, 5B

Periodic Table (7 Days)

- History of periodic table
- Organization of periodic table
- Periodic trends

TEKS
3D, 3F, 5A-5C

Light and Electrons (4 Days)

- Light and waves
- Electron configurations
- Electron dot diagrams

TEKS
1A-1C, 2A-2I, 3D, 3F, 6B, 6D

Fall Semester Exam Review/Exam (5 Days)

- Reviews assigned sporadically

TEKS
1A-7E

Spring Semester 2021

4 th Grading Period (29 Days)	5 th Grading Period (29 Days)	6 th Grading Period (34 Days)
<p>Chemical Equations (9 Days)</p> <ul style="list-style-type: none">○ Balancing equations○ Types of equations○ Activity series of metals <p><i>TEKS</i> 1A-1C, 2A-2I, 8E, 8F</p> <p>The Mole (13 Days)</p> <ul style="list-style-type: none">○ Molar mass○ Mole conversions○ Percent composition○ Empirical/Molecular formulas <p><i>TEKS</i> 1A-1C, 2A-2I, 8A-8D</p> <p>Stoichiometry (6 Days + ELA Benchmark?)</p> <ul style="list-style-type: none">○ Mole ratio○ Mass/mole and mass/mass calculations○ Percent yield○ Limiting reactants <p><i>TEKS</i> 1A-1C, 2A-2I, 8A, 8B, 8E, 8G, 8H</p>	<p>Stoichiometry (3 Days)</p> <ul style="list-style-type: none">○ Mole ratio○ Mass/mole and mass/mass calculations○ Percent yield○ Limiting reactants <p><i>TEKS</i> 1A-1C, 2A-2I, 8A, 8B, 8E, 8G, 8H</p> <p>Gas Laws (13 Days)</p> <ul style="list-style-type: none">○ Kinetic Molecular Theory○ Boyle's/Charles'/Gay-Lussac's Laws○ Avogadro's/Dalton's Laws○ Combined Gas Law○ Ideal Gas Law <p><i>TEKS</i> 1A-1C, 2A-2I, 9A, 9B</p>	<p>Solutions (6 Days)</p> <ul style="list-style-type: none">○ Solubility○ Phase change diagrams○ Solubility curves○ Molarity○ Dilutions○ Water <p><i>TEKS</i> 1A-1C, 2A-2I, 10A-10F</p> <p>Acids, Bases, pH (7 Days)</p> <ul style="list-style-type: none">○ Properties○ pH calculations <p><i>TEKS</i> 1A-1C, 2A-2I, 10G-10J</p>

Gas Law Stoichiometry (4 Days)

- Volume/volume
- Mole/volume
- Mass/volume

TEKS

1A-1C, 2A-2I, 8A, 8B, 8E, 8G

Solutions (8 Days + ELA STAAR)

- Solubility
- Phase change diagrams
- Solubility curves
- Molarity
- Dilutions
- Water

TEKS

1A-1C, 2A-2I, 10A-10F

Nuclear (8 Days)

- Types of radiation
- Nuclear equations
- Nuclear energy
- Half-lives and decay

TEKS

1A-1C, 2A-2I, 3E, 12A- 12C

Thermochemistry (8 Days)

- Types of energy
- Calorimetry
- Enthalpy
- Specific heat

TEKS

1A-1C, 2A-2I, 11A-11E

Fall Semester Exam Review/Exam (5 Days)

- Reviews assigned sporadically

TEKS

1A-12C