Scope and Sequence

Subject/Title of Unit	Grade	6 Weeks	Estimated Time Frame (# of days)
Science Matter and Properties	Eighth	1st Six Weeks	3.5 Weeks

TEKS/Student Expectations	Examples/Specifications:
(8) (A) describe the structure and parts of an atom; and (B) identify the properties of an atom including mass and electrical charge. (9) (A) demonstrate that substances may react chemically to form new substances; (B) interpret information on the periodic table to understand that physical properties are used to group elements; (C) recognize the importance of formulas and equations to express what happens in a chemical reaction; and (D) identify that physical and chemical properties influence the development and application of everyday materials such as cooking surfaces, insulation, adhesives, and plastics.	8 A and B- have students identify the parts of an atom and the structure, students should be able to make an atom model or illustration 9 B- students should be able to read a periodic table and understand the numbers that are found on the periodic table 9 A,C, and D- discuss the differences between physical and chemical properties and changes, discuss chemical reactions and how to interpret them on paper, understand that physical and chemical reactions occur all the time all around us
Language of Instruction:	**Instructional Resources/Textbook Correlations:**

<table>
<tr>
<td>Element
Atom
Nucleus
Proton
Neutron
Electron
Atomic number
Atomic mass unit
Valence electron
Electron dot diagram
Physical properties
Chemical property
Metal
Nonmetal
Metalloid
Radioactive dating</td>
<td>Endothermic reaction
Exothermic reaction
Compound
Chemical Equation
Reactants
Coefficient
Decomposition
Synthesis
Reactants
Composite
Alloy
Nuclear reaction
Isotope
Mass number
Radioactive decay
Half-life</td>
<td>Prentice Hall Science Explorer Textbook and Guided Reading Workbook Chapter 1and 2

Chemical and Physical Properties Lab- cutting paper vs. vinegar and baking soda

Weblinks/Other Resources:</td>
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<tr>
<td colspan="2">Evaluation/External Assessment/Local Assessment:</td>
<td>Best Instruction Timeline:</td>
</tr>
<tr>
<td colspan="2">Teacher Test
Balancing Equations Worksheet and Test
Model chemical reactions with models</td>
<td>4 days- Periodic table
3 days- Structure of an atom
1 day- Build an Atom
4 days- Physical and Chemical Properties
3 days- Chemical Reactions- New substance formed
3 days- Balancing Equations</td>
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