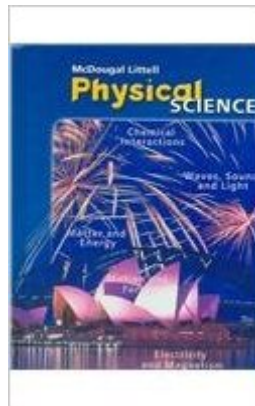


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# McDougal Littell Science: Student Edition Grade 8 Physical Science 2006



## Synopsis

Science

## Book Information

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PHYSICAL SCIENCE TEXTBOOK OUTLINE  
UNIT 1: Matter and Energy  
1. Intro to matter  
a. matter has mass and volume  
b. matter is made of atoms  
c. matter combines to form different substances  
d. matter exists in different physical states  
2. Properties of matter  
a. matter has observable properties  
b. change of state are physical changes  
c. properties are used to identify substances  
3. Energy  
a. Energy exists in different forms  
b. Energy can change form but is never lost  
c. Technology improves the ways people use energy  
4. Temperature and heat  
a. temperature depends on particle movement  
b. energy flows from warmer to cooler objects  
c. the transfer of energy as heat can be controlled  
UNIT 2: Chemical Interactions  
1. Atomic structure and the periodic table  
a. Atoms are the smallest form of elements  
b. Elements make up the periodic table  
c. The periodic table is a map of the elements  
2. Chemical bonds and compounds  
a. Elements combine to form compounds  
b. Chemical bonds hold compounds together  
c. Substances' properties depend on their bonds  
3. Chemical reactions  
a. Chemical reactions alter arrangements of atoms  
b. The masses of reactants and products are equal  
c. Chemical reactions involve energy changes  
d. Life and industry depend on chemical reactions  
4. Solutions  
a. A solution is a type of mixture  
b. The amount of solute that dissolves can vary  
c. Solutions can be acidic, basic, or neutral  
d. Metal alloys are solid mixtures  
5. Carbon in life and materials  
a. Carbon-based molecules have many structures  
b. Carbon-based

molecules are life's building blocks.

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