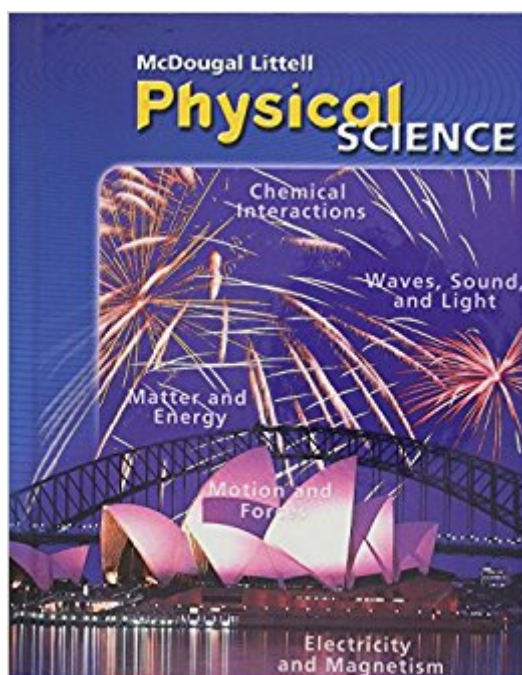


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McDougal Littell Science: Student Edition Grade 8 Physical Science 2006



Synopsis

Science

Book Information

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Science

course book

Book looks great!

Very good. Thank you.

Good content.

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

c. Carbon-based molecules are in many materials

UNIT 3: Motion and Forces

1. Motion

a. An object in motion changes position

b. Speed measures how fast position changes

c. Acceleration measures how fast velocity changes

2. Forces

a. Forces change motion

b. Force and mass determine acceleration

c. Forces act in pairs

d. Forces transfer momentum

3. Gravity, friction, and pressure

a. Gravity is a force exerted by masses

b. Friction is a force that opposes motion

c. Pressure depends on force and area

d. Fluids can exert a force on objects

4. Work and energy

a. Work is the use of force to move an object

b. Energy is transferred when work is done

c. Power is the rate at which work is done

5. Machines

a. Machines help people do work

b. Six simple machines have many uses

c. Modern technology uses compound machines

UNIT 4: Waves, Sound, and Light

1. Waves

a. Waves transfer energy

b. Waves have measurable properties

c. Waves behave in predictable ways

2. Sound

a. Sound is a wave

b. Frequency determines pitch

c. Intensity determines loudness

d. Sound has many uses

3. Electromagnetic waves

a. Electromagnetic waves have unique traits

b. Electromagnetic waves have many uses

c. The sun is the source of most visible light

d. Light waves interact with materials

4. Light and optics

a. Mirrors form images by reflecting light

b. Lenses form images by refracting light

c. The eye is a natural optical tool

d. Optical technology makes use of light waves

UNIT 5: Electricity and Magnetism

1. Electricity

a. Materials can become electrically charged

b. Charges can move from one place to another

c. Electric current is a flow of charge

2. Circuits and electronics

a. Charge needs a continuous path to flow

b. Circuits make electric current useful

c. Electronic technology is based on circuits

3. Magnetism

a. Magnetism is a force that acts at a distance

b. Current can produce magnetism

c. Magnetism can produce current

d. Generators supply electrical energy

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