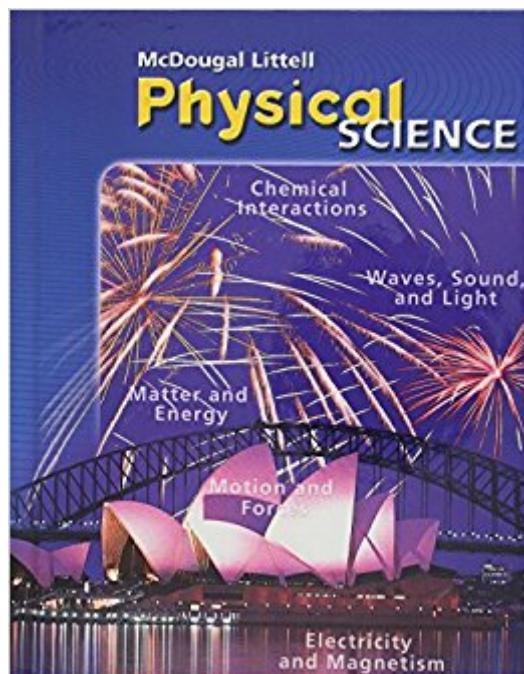


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# McDougal Littell Science: Student Edition Grade 8 Physical Science 2006



## **Synopsis**

Science

## **Book Information**

Series: McDougal Littell Science

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## **Customer Reviews**

Science

course book

Book looks great!

Very good. Thank you.

Good content.

PHYSICAL SCIENCE TEXTBOOK OUTLINE  
UNIT 1: Matter and Energy  
1. Intro to mattera. matter has mass and volumeb. matter is made of atomsc. matter combines to form different substancesd. matter exists in different physical states  
2. Properties of mattera. matter has observable propertiesb. change of state are physical changesc. properties are used to identify substances  
3. Energya. Energy exists in different formsb. Energy can change form but is never lostc. Technology improves

the ways people use energy4. Temperature and heata. temperature depends on particle movementb. energy flows from warmer to cooler objectsc. the transfer of energy as heat can be controlled

**UNIT 2: Chemical Interactions**

1. Atomic structure and the periodic tablea. Atoms are the smallest form of elementsb. Elements make up the periodic tablec. The periodic table is a map of the elements
2. Chemical bonds and compoundsa. Elements combine to form compoundsb. Chemical bonds hold compounds togetherc. Substances' properties depend on their bonds
3. Chemical reactionsa. Chemical reactions alter arrangements of atomsb. The masses of reactants and products are equalc. Chemical reactions involve energy changesd. Life and industry depend on chemical reactions
4. Solutionsa. A solution is a type of mixtureb. The amount of solute that dissolves can varyc. Solutions can be acidic, basic, or neutrald. Metal alloys are solid mixtures

**Carbon in life and materials**

- a. Carbon-based molecules have many structuresb. Carbon-based molecules are life's building blocksc. Carbon-based molecules are in many materials

**UNIT 3: Motion and Forces**

1. Motiona. An object in motion changes positionb. Speed measures how fast position changesc. Acceleration measures how fast velocity changes
2. Forcesa. Forces change motionb. Force and mass determine accelerationc. Forces act in pairsd. Forces transfer momentum
3. Gravity, friction, and pressurea. Gravity is a force exerted by massesb. Friction is a force that opposes motionc. Pressure depends on force and aread. Fluids can exert a force on objects
4. Work and energya. Work is the use of force to move an objectb. Energy is transferred when work is donec. Power is the rate at which work is done
5. Machinesa. Machines help people do workb. Six simple machines have many usesc. Modern technology uses compound machines

**UNIT 4: Waves, Sound, and Light**

1. Wavesa. Waves transfer energyb. Waves have measurable propertiesc. Waves behave in predictable ways
2. Sounda. Sound is a waveb. Frequency determines pitchc. Intensity determines loudnessd. Sound has many uses
3. Electromagnetic wavesa. Electromagnetic waves have unique traitsb. Electromagnetic waves have many usesc. The sun is the source of most visible lightd. Light waves interact with materials
4. Light and opticsa. Mirrors form images by reflecting lightb. Lenses form images by refracting lightc. The eye is a natural optical toold. Optical technology makes use of light waves

**UNIT 5: Electricity and Magnetism**

1. Electricitya. Materials can become electrically chargedb. Charges can move from one place to anotherc. Electric current is a flow of charge
2. Circuits and electronicsa. Charge needs a continuous path to flowb. Circuits make electric current usefulc. Electronic technology is based on circuits
3. Magnetism a. Magnetism is a force that acts at a distanceb. Current can produce magnetismc. Magnetism can produce currentd. Generators supply electrical energy

fine. tell a lot of the product . I absolutely love this product! I purchased this product along with a cutting board for a fruit platter that I needed to make for a party this past weekend. This product worked perfectly. It cut right threw the hard watermelon rind also cut the pineapple so perfectly. I am very pleased with the purchase! If your thinking about ordering this product you won't be disappointed. Thank you to the seller for a nice an smooth purchase! as a birthday gift to my husband this price is valuable.

great book to have at home

I am a new teacher and I purchased this to become more comfortable with all subjects of Middle School Science. I will need to purchase an Earth Science book, though, to cover all areas.

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