

Art and Photography Credits: Science

TEKS Biology

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TEKS 2: Methods and Equipment:

2B - Reading - Beginning a Scientific Investigation

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2B - Reading - Forming a Hypothesis

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2D - Reading: Scientific Theories

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2F - Lab Activity: Monocot and Dicot Seeds

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2F - Lab Activity: Plant Cell Observation

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2F - Lab Activity: Types of Data

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2G - Lab Activity: Embryonic Development

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2G - Lab Activity: Reaction Times

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2H - Lab Activity: Cell and Size Diffusion

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TEKS 3: Critical Thinking & Problem Solving:

3D - Reading: Applications of Biological Research

triceratops skull:©Smithsonian Institution/Photo Researchers, Inc.; robot insect:©Peter Menzel/Photo Researchers, Inc.

3D - Reading: Tiny Terrors

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3F - Reading: Microbiology

Beatrix Potter:©Popperfoto/Getty Images; mushrooms:©Steve Axford; polio vaccine:©Bettmann/Corbis; Luc Montagnier:©Martine Franck/Magnum Photos.

3F - Reading: The Discovery of Cells

Purkinje nerve cell. :Credit: ©David Becker / Photo Researchers, Inc.; nerve cells:©Francois Paquet-Durand/Photo Researchers, Inc.; girl looking through microscope:©Michael Newman/PhotoEdit; skin cell:©Andrew Syred/Photo Researchers, Inc.; plant cell :©Perennou Nuridsany/Photo Researchers, Inc.; nerve cells:©Francois Paquet-Durand/Photo Researchers, Inc.; euglena:©Sinclair Stammers/Photo Researchers, Inc.

TEKS 4: Cells & Viruses:

4A – Reading: The Discovery of Cells

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4A - Reading: Inside the Eukaryotic Cell

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4A - Reading: Introduction to Cells

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4B - Reading: Cell Membrane

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4B - Reading: Cell Transport

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4C - Reading: HIV Reproduction

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4C - Reading: Viral Diseases

shingles:©Dr. M. A. Ansary/Photo Researchers, Inc.

4C - Reading: Viruses

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TEKS 5: Cell Differentiation:

5A - Lab Activity: Mitosis in Plant Cells

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5A - Reading: Mitosis

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5A - Reading: Why Cells Reproduce

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5B - Lab Activity: Observing Roots, Stems & Leaves

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5D - Reading: Cancer

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TEKS 6: Genetics:

6A - Reading: DNA

DNA:©Alfred Pasiaka/Photo Researchers, Inc.

6A - Reading: The Structure of DNA

three sisters:©Rick Gomez/Corbis.

6B - Reading: DNA

DNA:©Alfred Pasiaka/Photo Researchers, Inc.

6B - Reading: Genomes & the Diversity of Life

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6C - Reading: RNA and Gene Expression

RNA molecule:©Alfred Pasiaka/Photo Researchers, Inc.

6D - Reading: Regulating Gene Expression

E.coli:©NIAID/CDC/Photo Researchers, Inc.; butterfly:©Leslie J Borg/Science Photo Library/Photo Researchers, Inc.; caterpillar:©Westend61/Getty Images; DNA:©Corbis.

6E - Reading: Mutation and Genetic Change

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6F - Reading: Beyond Mendelian Heredity

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6F - Reading: Mendel's Theory

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6F - Reading: Modeling Mendel's Laws

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6H - Lab Activity: DNA Fingerprint Analysis

DNA sequencing:©Tek Image/Photo Researchers, Inc.

6H - Reading: Gene Technologies in Detail

DNA sequencing:©David Parker/Photo Researchers, Inc.; electrophoresis:©Louise Lockley/CSIRO/Photo Researchers, Inc.

6H - Reading: Gene Technologies in Our Lives

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TEKS 7: Evolutionary Theory:

7A - Reading: Applying Darwin's Ideas

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7B - Reading: Evolution of Life

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7C - Reading: Applying Darwin's Ideas

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7C - Reading: Genetic Change

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7D - Reading: Evolution by Natural Selection

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7E - Reading: Speciation

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8A - Reading: Importance of Classification

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8B - Lab Activity: Dichotomous Key

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TEKS 9: Energy Conversions:

9A - Reading: Carbon Compounds

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9D - Energy Conversions, Reading: How Did Life Begin

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TEKS 10: Levels of Organization:

10C - Reading: Body Organization

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10C - Reading: From Cell to Organism

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TEKS 11: Systems and Balances:

11B - Reading: Cell Communication

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11C - Reading: Protists and the Environment

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TEKS 12: Ecosystems:

12A - Reading: Interactions in Communities

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12C - Reading: Energy Flow in Ecosystems

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12D - Reading: Populations

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12D - Reading: Shaping Communities

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12E - Reading: The Cycling of Materials

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12F - Reading: Ecosystem Disruption

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Art and Photography Credits: Science

TEKS Chemistry

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TEKS 1: Investigations:

1B - Reading: Safety in Your Laboratory

teacher with student at microscope:©Corbis.

TEKS 2: Scientific Methods:

2B - Reading - Hypothesis to Theories

highway traffic:©Joe Raedle/Getty Images; ozone:©Getty Images News/Getty Images.

2I - Lab Activity: Flame Tests

antimony flame test:©Charles D. Winters/Photo Researchers, Inc.

TEKS 3: Critical Thinking & Problem Solving:

3D - Reading: Alloys

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key:©Perry Mastrovito/Design Pics Inc./Alamy Images; chairs:©sauletas/Alamy Images;
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3E - Reading: Forensic Chemist

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3F - Reading: An Unexpected Finding

Hahn apparatus:©Hulton Archive/Getty Images; lab apparatus:©Hulton Archive/Getty Images.

3F - Reading: The Noble Decade

William Ramsay:©SSPL/Getty Images; Lise Meitner:©Science Source/Photo Researchers, Inc.

3F - Reading: The Riddle of Electrolysis

electrobulb:©Hulton Archive/Getty Images.

TEKS 4: Chemical and Physical Changes:**4A - Reading: Properties and Changes in Matter**

decomposition reaction:©Charles D. Winters.

4C - Kinetic-Molecular Explanations of the States of Matter

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4D - Reading: Classification of Matter

Hoffman Voltmeter:©Trevor Clifford Photography/Photo Researchers, Inc.

4D - Reading: Classifying Matter

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TEKS 5: Periodic Table:**5A - Reading: History of the Periodic Table**

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5B - Reading: The Families of Elements

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5B - Reading: Tour of the Periodic Table

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TEKS 6: Atomic Theory:

6C - Reading: Photon Energy and Line Spectra

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TEKS 7: Bonding:

7B - Reading: Naming and Formula Writing

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7C - Reading: Lewis Electron-Dot Structures

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7D - Reading: Metallic Bonding

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TEKS 8: Chemical Reactions:

8D - Reading: The Meaning of Balanced Chemical Equations

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TEKS 9: Gases and Kinetic Molecular Theory:

9A - Reading: Applying Gas Laws

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9C - Reading: Kinetic Molecular Theory and States Matter

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TEKS 10: Solutions, Acids and Bases:

10G - Reading: Acids and Bases

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10H - Reading: Acids-Base Reactions

acid rain:©Thomas Nilsen/Photo Researchers, Inc.

10H - Reading: Oxidation-Reduction Reactions

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10I - Reading: The Concept of pH

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TEKS 11: Energy and Chemical Reactions:

11B - Reading: Law of Conservation Energy

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11C - Reading: Energy Transfer

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TEKS 12: Nuclear Chemistry:

12A - Reading: Nuclear Radiation

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12C - Reading: Nuclear Fission and Fusion

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Art and Photography Credits: Science

TEKS Physics

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TEKS 2: Methods and Equipment:

2H - Reading: Accuracy & Precision

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2H - Reading: Numbers as Measurements

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2L - Reading: The Language of Physics

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TEKS 3: Critical Thinking & Problem Solving:

3D - Reading: Antimatter

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3D - Reading: Electron Tunneling

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3D - Reading: Timeline 1540-1690

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3D - Reading: Timeline 1830-1890

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3D - Reading: Timeline 1890-1950

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TEKS 4: Motion:

4A - Reading: Motion, Displacement & Velocity

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4B - Reading: Falling Objects

falling objects:©Erich Schrempp/Photo Researchers, Inc.; skydiver:©Getty Images; billiard balls:©Richard Megna/Fundamental Photographs, New York.

4C - Reading: Circular Motion

ferris wheel:©Joseph Sohm/Visions of America/Corbis.

4C - Reading: Projectile Motion

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4D - Reading: Circular Motion

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4D - Reading: Newton's First Law, Newton's Second & Third Laws

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4E - Reading: Force Diagrams

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4F - Reading: Relative Velocity

falcon:©Ross Harrison Koty/Getty Images.

TEKS 5: Forces:

5B - Reading: Newton's Law of Universal Gravitation

Sagittarius:©Chandra X-Ray Observatory/NASA; gold bars:©PhotoDisc; low tide:©Andrew J. Martinez/Photo Researchers, Inc.; high tide:©Andrew J. Martinez/Photo Researchers, Inc.

5D - Reading: Electric Guitar Pickups

boy jumping:©Photodisc/SW Productions/Getty Images.

5D - Reading: Magnetic Resonance Imaging

MRI:©iPhoto.ca/Jeff McIntosh/NewsCom; brain scan:©Alfred Pasiaka/Photo Researchers, Inc.

5E - Reading: Electric Charge

comb:©Fundamental Photographs, New York.

5F - Reading: Current & Resistance

circuit board:©Roger Allyn Lee/SuperStock; Van de Graaff generator:©Photo Researchers, Inc.

5F - Reading: Resistors in Series or Parallel

Mini Cooper:©KRT/NewsCom.

5H - Reading: The Particle View of Nature

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TEKS 6: Energy and Momentum:

6A - Reading: The Net Work Done on a Body Equals Its Change in Kinetic Energy

man at fair:©Pulse Productions/PictureQuest/SuperStock.

6B - Reading: Elastic & Inelastic Collisions

football game:©Nathan Bilow/Getty Images.

6B - Reading: Kinetic Energy

airtrack:©Richard Megna/Fundamental Photographs, New York; man at fair:©Pulse Productions/PictureQuest/SuperStock.

6B - Reading: Potential Energy

boulder:©George Schwartz.

6C - Reading: Conservation of Energy

clock:©Robert Mathena/Fundamental Photographs, New York; child on slide:©Tony Freeman/PhotoEdit; sanding block:©Robert Wolf.

6C - Reading: Momentum & Impulse

cyclist:©Ben Blankenburg/Corbis; soccer player:©Phil Cole/Getty Images; blanket toss:©Lawrence Migdale; egg:©Richard Megna/Fundamental Photographs, New York; egg hitting pillow:©Richard Megna/Fundamental Photographs, New York.

6D - Reading: Conservation of Momentum

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6E - Reading: Changes in Temperature & Phase

swimming pool:©Peter Anderson/Alamy.

6G - Reading: The First Law of Thermodynamics

roller coaster:©Rafael Macia/Photo Researchers, Inc.; smokestacks:©PhotoDisc/Getty Images.

TEKS 7: Waves:

7A - Reading: Harmonic Motion

ship ride:©Pictorium/Alamy Images; pinball machine:©Steve Bronstein/Getty Images; clock:©Robert Mathena/Fundamental Photographs, New York; truck:©Verna Bice/Acclaim Stock Photography; archer:©Photo Researchers, Inc.; acrobat:©SuperStock.

7B - Reading: Characteristics of Light

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7C - Reading: Sound Waves

lightning:©Peter Arnold Images/Photolibrary New York; tuning fork:©Richard Megna/Fundamental Photographs; tuning fork close up:©Richard Megna/Fundamental Photographs.

7C - Reading: Wave Motion, Wave Types

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7D - Reading: Diffraction

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7D - Reading: Forced Vibrations & Resonance

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7D - Reading: Interference

soap bubble:©David Taylor/Photo Researchers, Inc.; soap bubbles:©Ian Mckinnell/Getty Images; laser:©GIPhotoStock/Photo Researchers, Inc.

7D - Reading: Refraction

water droplet:©Christopher Burki/Getty Images; pelican:©George Lepp/Getty Images.

7D - Reading: Wave Interference, Reflection

bumper boats:©Sandra Mu/Getty Images; ripples:©Richard Megna/Fundamental Photographs, New York.

7E - Reading: Flat Mirrors

golf ball:©Richard Megna/Fundamental Photographs, NYC; light beam:©Richard Megna/Fundamental Photographs, New York; pencil:©Richard Megna/Fundamental Photographs, New York.

7E - Reading: Thin Lenses

light beams:©Richard Megna/Fundamental Photographs, New York.

7F - Reading: Hearing Loss

boy using sander:©Tony Freeman/PhotoEdit.

7F - Reading: Ultrasound Images

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TEKS 8: Atomic, Nuclear and Quantum Phenomena:

8A - Reading: The Photoelectric Effect

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8C - Reading: The Equivalence of Mass & Energy

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8D - Reading: Magnetic Resonance Imaging

MRI:©iPhoto.ca/Jeff McIntosh/NewsCom; brain scan:©Alfred Pasiaka/Photo Researchers, Inc.

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Art and Photography Credits: Science

TEKS Integrated Physics & Chemistry (IPC)

Banner: hot air balloons:©Brand X Pictures/Getty Images.

TEKS 2: Scientific Methods:

2A - Reading: How Science Takes Place

Crooke's tube:©Hulton Archive/Getty Images; hand x-ray:©Photo Researchers, Inc.; CRT set:©Kari Marttila/Alamy Images.

TEKS 3: Critical Thinking & Problem Solving:

3D - Reading: A Natural Cooler

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3D - Reading: Acid Rain

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3D - Reading: Chemistry Connections

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3D - Reading: Miniaturization of Circuits

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3E - Reading: Careers Using Chemistry

medical practitioner:©Gabe Palmer/Corbis; test tubes:©Ted Horowitz/Corbis; lab technician:©Lester Lefkowitz/Corbis; ethnobotanist :©Aurora Photos/Getty Images; arson investigator:©Michael Donne/SPL/Photo Researchers, Inc.; conservator:©Richard Levine/Alamy Images; chef:©Corbis; perfumer:©Gail Mooney/Corbis.

3E - Reading: Careers Using Physics

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3F - Reading: Discovering Nuclear Radiation

Marie Curie:©Bettmann/Corbis; ionization chamber:©Jean-Loup Charmet/Photo Researchers, Inc.; flask:©DK Limited/Corbis; mummy:©Gianni Dagli Orti/Corbis.

3F - Reading: Leonardo da Vinci

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M/Photolibrary New York; crowd:©Stone/Getty Images; Antoine Lavoisier :©The Granger Collection, New York; gold foil experiment:©Mike Agliolo/Photo Researchers, Inc.; Linus Pauling:©Universal History Archive/Getty Images; fullerenes:©Alfred Pasieka/Photo Researchers, Inc.; bats:©Getty Images.

TEKS 4: Force & Motion:

4A - Reading: Acceleration

wind farm:©Wernher Krutein/Corbis; speedskaters:©Chris Cole/Corbis.

4A - Reading: Measuring Motion

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4B - Lab Activity: Motion on Motion

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4B - Reading: Graphing Accelerated Motion

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4B - Reading: Graphing Motion

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4C - Reading: Motion & Force

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4C - Reading: Newton's First & Second Laws

car seat:©Philip Kaake/Corbis; bowling:©Dennis O'Clair/Getty Images; dummy:©Rick Fischer/Masterfile.

4C - Reading: Newton's Third Law

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4F - Reading: Gravity

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4G - Reading: Electric Charge and Force

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TEKS 5: Energy:

5A - Reading: Kinetic Energy

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5A - Reading: Kinetic Theory

northern lights:©Steve Bloom Images/Alamy Images; tea kettle:©Tony Freeman/PhotoEdit; chef:©Corbis; rocky shoreline:©Ron Chapple Stock/Corbis.

5B - Reading: Other Forms of Energy

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5B - Reading: Potential Energy

roller coaster:©Lester Lefkowitz/Corbis.

5C - Reading: Electric Currents from Magnetism

hair dryer:©Ken Kaminesky/Corbis; metal detector:©PunchStock; metal detector:©Dynamic Graphics Group/Alamy Images; guitar player:©Tara Moore/Getty Images.

5C - Reading: Magnetism from Electric Currents

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5D - Reading: Conservation of Mass and Energy

tea kettle:©Tony Freeman/PhotoEdit; lawnmower:©Veer Photography; rocky shoreline:©Ron Chapple Stock/Corbis.

5D - Reading: Energy Transfer

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5D - Reading: The Law of Conservation of Energy

fireworks:©Stockbyte/Getty Images.

5E - Reading: How Are Homes Heated & Cooled?

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5F - Reading: Circuits

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5F - Reading: Electric Charge and Force

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5G - Reading: Characteristics of Waves

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5G - Reading: Seeing Colors

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5G - Reading: Type of Waves

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5G - Reading: Wave Interactions

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5G - Reading: Waves & Particles

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5H - Reading: Energy & Resources

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5I - Reading: Energy & Resources

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5I - Reading: Pollution & Recycling

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TEKS 6: Structure & Properties of Matter:

6A - Reading: Matter & Energy

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6B - Reading: Compounds & Molecules

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6B - Reading: Ionic & Covalent Bonding

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6C - Reading: Classifying Matter

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6C - Reading: Properties of Matter

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6D - Reading: Exploring the Periodic Table

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6D - Reading: Families of Elements

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6D - Reading: Organizing the Elements

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6E - Reading: Acids, Bases, and pH

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6E - Reading: How Substances Dissolve

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6E - Reading: Solubility & Concentration

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TEKS 7: Changes in Matter:

7A - Reading: Energy & Changes of State

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7A - Reading: Matter & Energy

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7B - Reading: Chemical Changes

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7B - Reading: Ionic & Covalent Bonding

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7B - Reading: Modern Atomic Theory

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7C - Reading: Chemical Equations

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7C - Reading: The Nature of Chemical Reactions

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7E - Reading: Nuclear Fission and Fusion

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7E - Reading: Nuclear Radiation Today

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7F - Reading: Acid Rain

stone wall:©Sally A. Morgan/Corbis; loon:©Alaska Maritime National Wildlife Refuge/U.S. Fish and Wildlife Service; acid rain damage:©Simon Fraser/Science Photo Library/Photo Researchers, Inc.

7F - Reading: Air & Water Pollution

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7F - Reading: Ozone

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