

### Science

*Numbers in parentheses are the Quick Launch numbers.*

#### ▶ EARTH SCIENCE: Earth & Moon

**InterActivity:** Eclipses (947)

**Web Inquiry:** Our moon: sister, daughter, or spouse of the earth? (40)

**Classroom Activity:** Time is Relative (971)

**Web Lesson:** Lunar Myths (447)

**Project:** Starry, Starry Night (239)

**Web Resources:** Earth & Moon: Internet Sites (669)

#### ▶ EARTH SCIENCE: Earth's Hydrosphere

**InterActivity:** Tides (950)

**Web Inquiry:** Where does the rain go now? (66)

**Classroom Activity:** The Underground Architect: Water (997)

**Web Lesson:** Balancing the (Water) Budget (473)

**Project:** Current Events (265)

**Web Resources:** Earth's Hydrosphere: Internet Sites (695)

#### ▶ EARTH SCIENCE: Earth's Structure & History

**InterActivity:** Geologic Time (951)

**Web Inquiry:** Can you really dig a hole to China? (67)

**Classroom Activity:** Ancient Earth Measurements (998)

**Web Lesson:** Earth's Future (474)

**Project:** Planet Earth: This Is Your Life (266)

**Web Resources:** Earth's Structure & History: Internet Sites (696)

#### ▶ EARTH SCIENCE: Natural Resources

**InterActivity:** Carbon Cycle (952)

**Web Inquiry:** How can the world prolong its use of oil? (69)

**Classroom Activity:** Fuel Analysis (1000)

**Web Lesson:** The Trouble with Humans (476)

**Project:** Nuclear Power: The Pros & Cons (268)

**Web Resources:** Natural Resources: Internet Sites (698)

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▶ **EARTH SCIENCE: Planets & Motion**

**InterActivity:** Planetary Motion (948)

**Web Inquiry:** Do other stars have planets like our sun's? (45)

**Classroom Activity:** Motion of Satellites (976)

**Web Lesson:** Mission: Space Probe Documentation (452)

**Project:** Kepler's First Law (244)

**Web Resources:** Planets & Motion: Internet Sites (674)

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▶ **EARTH SCIENCE: Plate Tectonics**

**InterActivity:** Evidence for Plate Tectonics (953)

**Web Inquiry:** Would you survive? (70)

**Classroom Activity:** Plate Tectonics and the Fossil Record (1001)

**Web Lesson:** Pangaea Today? (477)

**Project:** Patterns of Fury (269)

**Web Resources:** Plate Tectonics: Internet Sites (699)

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▶ **EARTH SCIENCE: Rocks, Minerals, & Soil**

**Web Inquiry:** Does that rock have a future? (71)

**Classroom Activity:** Soil pH & Solubility (1002)

**Web Lesson:** A Rock Is a Rock (478)

**Project:** Mineral Fact Sheets (270)

**Web Resources:** Rocks, Minerals, & Soil: Internet Sites (700)

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▶ **EARTH SCIENCE: Stars & Galaxies**

**InterActivity:** Properties of Stars (949)

**Web Inquiry:** Quasars and active galaxies: cannibals of the cosmos? (43)

**Classroom Activity:** Galaxies in Motion (974)

**Web Lesson:** Constellations (450)

**Project:** Life of a Star (242)

**Web Resources:** Stars & Galaxies: Internet Sites (672)

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▶ **PHYSICAL SCIENCE: Changes in Matter**

**InterActivity:** Chemical Equations (1194)

**Web Inquiry:** What's the connection between dots and compounds? (39)

**Classroom Activity:** Reaction Time (970)

**Web Lesson:** How Reactions Rate (446)

**Project:** Conserving Mass (238)

**Web Resources:** Changes in Matter: Internet Sites (668)

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► **PHYSICAL SCIENCE: Electricity & Magnetism**

- InterActivity:** Circuits (1195)  
**Web Inquiry:** Why do I get a shock when I touch the doorknob after walking across the carpet in stocking feet? (41)  
**Classroom Activity:** Have You Seen the Light? (972)  
**Web Lesson:** Magnet Magic (448)  
**Project:** Electric Shopping Spree (240)  
**Web Resources:** Electricity & Magnetism: Internet Sites (670)

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► **PHYSICAL SCIENCE: Energy**

- InterActivity:** Kinetic & Potential Energy (1193)  
**Web Inquiry:** Why does ice float? (42)  
**Classroom Activity:** Getting Into Hot Water (973)  
**Web Lesson:** Energy Form and Function (449)  
**Project:** Game-Show Thermodynamics (241)  
**Web Resources:** Energy: Internet Sites (671)

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► **PHYSICAL SCIENCE: Forces**

- InterActivity:** Free Fall (1196)  
**Web Inquiry:** As you sit in that chair, is the force with you? (44)  
**Classroom Activity:** Leveraging Your Pennies (975)  
**Web Lesson:** It's Simple (451)  
**Project:** "Hooke-d" on Springs (243)  
**Web Resources:** Forces: Internet Sites (673)

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► **PHYSICAL SCIENCE: Motion**

- InterActivity:** Linear Motion (1198)  
**Web Inquiry:** Why does an object moving in a circle always accelerate? (65)  
**Classroom Activity:** Falling Bodies (996)  
**Web Lesson:** Gathering Momentum (264)  
**Project:** 3, 2, 1, Liftoff (472)  
**Web Resources:** Motion: Internet Sites (694)

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► **PHYSICAL SCIENCE: Properties of Matter**

- InterActivity:** Atomic Structure (1197)  
**Web Inquiry:** What are the rules for deciphering "code names" such as NaCl, CO, and Cu(OH)<sub>2</sub>? (46)  
**Classroom Activity:** Melting Points & Boiling Points (977)  
**Web Lesson:** Elements & Matter: It's Classified (453)  
**Project:** The Matter of Murder (245)  
**Web Resources:** Properties of Matter: Internet Sites (675)

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► **PHYSICAL SCIENCE: Solutions**

- InterActivity:** Solution Properties (1199)  
**Web Inquiry:** Orange juice, Jello, and mayonnaise – what makes them different? (68)  
**Classroom Activity:** Saline Solution Lab (999)  
**Web Lesson:** pHenomenal Acids & Bases (475)  
**Project:** Industrial-Strength Acids & Bases (267)  
**Web Resources:** Solutions: Internet Sites (697)

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► **PHYSICAL SCIENCE: Waves**

- InterActivity:** Wave Properties (1200)  
**Web Inquiry:** Reflection and refraction – are these processes as similar as their names? (72)  
**Classroom Activity:** The Full Spectrum (1003)  
**Web Lesson:** Ocean in Motion (479)  
**Project:** Telescope Analysis (271)  
**Web Resources:** Waves: Internet Sites (701)

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► **BIOLOGY: Biochemistry**

- InterActivity:** Enzymes (1)  
**Web Inquiry:** How do the structures of carbohydrates affect their functions? (47)  
**Classroom Activity:** Cookbook Biochemistry: Isolating DNA From Foods (978)  
**Web Lesson:** You Are What You Eat (454)  
**Project:** A Model For Chemiosmosis (246)  
**Web Resources:** Biochemistry: Internet Sites (676)

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► **BIOLOGY: Botany**

- InterActivity:** Photosynthesis (2)  
**Web Inquiry:** What is the life cycle of a flowering plant? (48)  
**Audio Inquiry:** Plant Evolution (1275)  
**Classroom Activity:** Floating Leaves (979)  
**Web Lesson:** Who Says Plants Don't Move? (455)  
**Project:** Economic Plants (247)  
**Web Resources:** Botany: Internet Sites (677)

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► **BIOLOGY: Cell Biology**

- InterActivity:** Membranes (3)  
**Web Inquiry:** Why are cells so small? (49)  
**Classroom Activity:** How Big Is That Cell? (980)  
**Web Lesson:** Lights ... Camera ... Action Potential! (456)  
**Project:** Organelle Functions (248)  
**Web Resources:** Cell Biology: Internet Sites (678)

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► **BIOLOGY: Diversity of Life**

**InterActivity:** Modern Taxonomy (872)

**Web Inquiry:** How is the human body like a zoo? (50)

**Audio Inquiry:** Viruses (1277)

**Classroom Activity:** Survival of the Fittest (981)

**Web Lesson:** Next of Kin (457)

**Project:** Conquering Life's Mysteries (249)

**Web Resources:** Diversity of Life: Internet Sites (679)

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► **BIOLOGY: Ecology**

**InterActivity:** Stream Ecology (870)

**Web Inquiry:** How does a rabbit survive when the world is full of predators? (51)

**Audio Inquiry:** Energy Flow in Ecosystems (1278)

**Classroom Activity:** Food Chains and Biological Magnification (982)

**Web Lesson:** Human Population Growth (458)

**Project:** Exploring an Ecological Address (250)

**Web Resources:** Ecology: Internet Sites (680)

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► **BIOLOGY: Evolution**

**InterActivity:** Microevolution (4)

**Web Inquiry:** How do you know that things evolve when you really can't watch something evolve? (52)

**Audio Inquiry:** Charles Darwin and Evolution by Natural Selection (1279)

**Classroom Activity:** Natural Selection (983)

**Web Lesson:** Human Evolution (459)

**Project:** Hardy-Weinberg Equilibrium: Mechanisms for Evolutionary Change (251)

**Web Resources:** Evolution: Internet Sites (681)

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► **BIOLOGY: Genetics**

**InterActivity:** Mendelian Genetics (869)

**Web Inquiry:** How can a Punnett square be used to predict the outcome of a cross between two individuals? (53)

**Audio Inquiry:** Sex-linked Traits (1280)

**Classroom Activity:** DNA Fingerprinting: A Simulation (984)

**Web Lesson:** Cloning: Techniques and Issues (460)

**Project:** Bad Genetics? (252)

**Web Resources:** Genetics: Internet Sites (682)

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► **BIOLOGY: Human Biology**

**InterActivity:** Disease Dynamics (871)

**Web Inquiry:** Will the recent breakthroughs in genetics and medicine affect me? (54)

**Audio Inquiry:** The Immune System (1281)

**Classroom Activity:** Fascinating Rhythms (985)

**Web Lesson:** Diagnosis: Disease (461)

**Project:** The Anatomy Follies (253)

**Web Resources:** Human Biology: Internet Sites (683)

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► **BIOLOGY: Molecular Biology**

- InterActivity:** DNA Replication (5)  
**Web Inquiry:** Is that tomato safe for me to eat? (55)  
**Classroom Activity:** Cracking the Protein Code (986)  
**Web Lesson:** The Polymerase Chain Reaction (462)  
**Project:** The History and Significance of Genetic Discoveries (254)  
**Web Resources:** Molecular Biology: Internet Sites (684)

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► **BIOLOGY: Reproduction & Development**

- InterActivity:** Cell Division (6)  
**Web Inquiry:** Which is better – asexual or sexual reproduction? (56)  
**Audio Inquiry:** Fetal Development (1283)  
**Classroom Activity:** Where Did All Those Different Cells Come From? (987)  
**Web Lesson:** Introduction to Mitosis & Meiosis (463)  
**Project:** Zebrafish Embryology (255)  
**Web Resources:** Reproduction & Development: Internet Sites (685)

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► **CHEMISTRY: Atoms & Molecules**

- InterActivity:** Electron Transitions (7)  
**Web Inquiry:** What good is the periodic table, anyway? (57)  
**Classroom Activity:** The Evolution of Atomic Theory (988)  
**Web Lesson:** Bond, Chemical Bond (464)  
**Project:** Molecular Structures (256)  
**Web Resources:** Atoms & Molecules: Internet Sites (686)

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► **CHEMISTRY: Chemical Reactions**

- InterActivity:** Precipitation Reactions (867)  
**Web Inquiry:** Can seashells explode? (58)  
**Classroom Activity:** Balancing Chemical Equations (989)  
**Web Lesson:** The Chemical Basis of Industry (465)  
**Project:** Chemical Reactions: Classes and Characteristics (257)  
**Web Resources:** Chemical Reactions: Internet Sites (687)

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► **CHEMISTRY: Phases of Matter**

- InterActivity:** Gas Laws (8)  
**Web Inquiry:** Why do helium balloons shrink faster than air-filled balloons? (59)  
**Classroom Activity:** Gases in Action: Popcorn Analysis (990)  
**Web Lesson:** The Solid State (466)  
**Project:** Phase Diagrams (258)  
**Web Resources:** Phases of Matter: Internet Sites (688)

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► **CHEMISTRY: Properties of Mixtures**

- InterActivity:** Measures of Concentration (866)  
**Web Inquiry:** What do ice cream and antifreeze have in common? (60)  
**Classroom Activity:** The Mystery of the Zeroes (991)  
**Web Lesson:** Making Sense of Solubility (467)  
**Project:** Pure Substance or Mixture? (259)  
**Web Resources:** Properties of Mixtures: Internet Sites (689)

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► **CHEMISTRY: Solution Chemistry**

- InterActivity:** Acid-Base Chemistry (9)  
**Web Inquiry:** What kinds of acids and bases are there? (61)  
**Classroom Activity:** Indicator Lab (992)  
**Web Lesson:** Buffered Solutions (468)  
**Project:** The Chemistry of Batteries (260)  
**Web Resources:** Solution Chemistry: Internet Sites (690)

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► **CHEMISTRY: Stoichiometry**

- InterActivity:** Limiting Reactants (10)  
**Web Inquiry:** How much metal does it take to float a blimp? (62)  
**Classroom Activity:** Kitchen Stoichiometry (993)  
**Web Lesson:** Chemical ID (469)  
**Project:** Wanted: Five Grams of Silver Chloride (261)  
**Web Resources:** Stoichiometry: Internet Sites (691)

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► **CHEMISTRY: The Nature of Matter**

- InterActivity:** Density (11)  
**Web Inquiry:** Which has more mass – salt or sugar? (63)  
**Classroom Activity:** Name that Chemical! (994)  
**Web Lesson:** Periodic Properties (470)  
**Project:** It's Elementary (262)  
**Web Resources:** The Nature of Matter: Internet Sites (692)

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► **CHEMISTRY: Thermochemistry**

- InterActivity:** Calorimetry (868)  
**Web Inquiry:** How can chemical reactions be diagrammed? (64)  
**Classroom Activity:** Nutrition Labels Mishap (995)  
**Web Lesson:** Gibbs Free Energy (471)  
**Project:** Heat Exchange Lab (263)  
**Web Resources:** Thermochemistry: Internet Sites (693)

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▶ **PHYSICS: Electricity & Magnetism**

- Web Inquiry:** Electric potential and electric potential energy – the same or different? (73)  
**Classroom Activity:** Magnetism (1004)  
**Web Lesson:** Lorentz Force and Induction (480)  
**Project:** Conduction (272)  
**Web Resources:** Electricity & Magnetism: Internet Sites (702)

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▶ **PHYSICS: Fluids**

- Web Inquiry:** Could the *Nautilus* travel 20,000 leagues beneath the sea? (74)  
**Classroom Activity:** Identity Crisis (1005)  
**Web Lesson:** Sink or Swim (481)  
**Project:** Air Density (273)  
**Web Resources:** Fluids: Internet Sites (703)

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▶ **PHYSICS: Forces**

- Web Inquiry:** How are action and reaction forces related to the net force acting on an object? (75)  
**Classroom Activity:** Shoe Friction (1006)  
**Web Lesson:** Weight on Other Worlds (482)  
**Project:** Newton's Second Law (274)  
**Web Resources:** Forces: Internet Sites (704)

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▶ **PHYSICS: Linear Motion**

- Web Inquiry:** What kinematic equations can be used to solve for displacement, velocity, acceleration, and time? (76)  
**Classroom Activity:** Hang Time (1007)  
**Web Lesson:** Constant Acceleration (483)  
**Project:** Detecting Motion (275)  
**Web Resources:** Linear Motion: Internet Sites (705)

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▶ **PHYSICS: Modern Physics**

- Web Inquiry:** Are all nuclear reactions the same? (77)  
**Classroom Activity:** Radioactivity (1008)  
**Web Lesson:** Relative Time (484)  
**Project:** Line Spectra (276)  
**Web Resources:** Modern Physics: Internet Sites (706)

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▶ **PHYSICS: Momentum & Energy**

- Web Inquiry:** How much work does it take to eat a cookie? (78)  
**Classroom Activity:** Follow the Bouncing Ball (1009)  
**Web Lesson:** Conservation of Momentum (485)  
**Project:** Elastic Collisions (277)  
**Web Resources:** Momentum & Energy: Internet Sites (707)

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▶ **PHYSICS: Projectile & Rotational Motion**

**Web Inquiry:** What are vectors and what is vector algebra? (79)

**Classroom Activity:** Angular Speed (1010)

**Web Lesson:** Projectile Motion (486)

**Project:** Rotational (Moment of) Inertia (278)

**Web Resources:** Projectile & Rotational Motion: Internet Sites (708)

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▶ **PHYSICS: Sound & Light**

**Web Inquiry:** What is the Doppler effect, and why is it important to understand? (80)

**Classroom Activity:** Hooke's Law (1011)

**Web Lesson:** Refraction and Reflection (487)

**Project:** The Sound of One Hand Tapping (279)

**Web Resources:** Sound & Light: Internet Sites (709)