

## Art and Photography Credits: Science

### TEKS Grade 6

#### TEKS 1: Lab Safety and Conservation:

##### 1A - Reading: Lab Safety

teacher with student at microscope:©Corbis; pill bug #1:©Mark Smith/Photo Researchers, Inc.; pill bug #2:©Nigel Cattlin/Photo Researchers, Inc.

#### TEKS 3: Scientific Reasoning:

##### 3A - Reading: Technology Improves Ways People Use Energy

calculator, ruler, index card:©Sharon Hoogstraten/Houghton Mifflin Harcourt; LED:©Lawrence Manning/Corbis; plastic cups, thermometers:©Sharon Hoogstraten/Houghton Mifflin Harcourt; girl with remote control:©Exactostock/Superstock; solar car:©Chris Rogers/Corbis; solar cells:©Thierry Grun/Workbook Stock/Getty Images; house with solar panels:©Martin Shields/Alamy Images; hybrid engine:©Atsushi Tsukada/AP Images; hybrid car:©Marty Lederhandler/AP Images; windmills:©Joe Sohm/Visions of America.

##### 3D - Reading: Timelines in Science: The Story of Atomic Structure

pneumatic trough:©Photo Researchers, Inc.; audion radio tube :©Clive Streeter/DK Images/Courtesy of The Science Museum, London; bubble-chamber scanner:©David Parker/Photo Researchers, Inc.; John Dalton:©The Granger Collection, NYC — All rights reserved.; Marie Curie:©AP Images; particle accelerator:©David Parker/Science Photo Library/Photo Researchers, Inc.; Alessandro Volta:©The Print Collector/Alamy Images.

##### 3D - Reading: Timelines in Science: The Story of Electronics

cell phone game device:©AP Images; computer chip:©Alfred Pasiaka/Photo Researchers, Inc.; Edison's dynamo:©Bettmann/Corbis; ENIAC:©Bettmann/Corbis; Benjamin Franklin:©Philadelphia Museum of Art/Corbis; Leydan jar:©The Granger Collection, NYC — All rights reserved.; transistors:©Tony Craddock/Photo Researchers, Inc.; Volta battery:©Alfredo Dagli Orti/The Art Archive/Corbis; vacuum tube:©Science Museum, London/Science & Society Picture Library; Babbage's difference engine:©Adam Hart-Davis/Photo Researchers, Inc.; Thales:©SPL/Photo Researchers, Inc.

##### 3D - Reading: Timelines in Science: The Story of Light

Euclid:©The Granger Collection, NYC — All rights reserved.; Sir Isaac Newton:©Granger Collection; Dr. Theodore Maiman:©Bettmann/Corbis; Newton's telescope:©Dr Jeremy Burgess/Science Photo Library/Photo Researchers, Inc.; Jupiter:NASA Jet Propulsion Laboratory (NASA-JPL); teacher with student at microscope:©Corbis; Newton's telescope:©Royal Greenwich Observatory/Science Photo Library/Photo Researchers, Inc.; camera obscura:©World History Archive/Alamy Images; Ali Alhazen's Book of Optics:©Universal Images Group/Superstock; razor blade:©Ken Kay/Fundamental Photographs; light wave interference pattern:©sciencephotos/Alamy Images; shark hologram:©Darby Sawchuk/Alamy Images; laser eye surgery:©Ilene MacDonald/Alamy Images; solar eclipse :©Jerry Schad/Photo Researchers, Inc.

##### 3D - Reading: Timelines in Science: Understanding Forces

aeolipile:©Clive Streeter/DK Images/Courtesy of The Science Museum, London; Archimedes:©Science Photo Library/Photo Researchers, Inc.; Aristotle:©Erich Lessing/Art Resource; catapult:©Gianni Dagli Orti/Biblioteca Capitolare Padu/The Art Archive/Picture Desk; Leonardo da Vinci drawing:©Victoria & Albert Museum/Art Resource; Sir Isaac Newton:©Scala/Art Resource; steam engine:©Dorling Kindersley; moon walk:NASA Langley Research Center (NASA-LaRC); Galileo:©Science Source/Photo Researchers, Inc.

**TEKS 5: Elements and Compounds:****5D - Reading: Forming New Substances**

blueberry muffin:©Sam Dudgeon/Houghton Mifflin Harcourt; teen with spilled bleach:©Scott Van Osdol/Houghton Mifflin Harcourt; reaction of sodium and chlorine gas:©Charlie Winters/Houghton Mifflin Harcourt; maple leaves in fall:©Michael Luque/Photo Researchers, Inc.; bonfire:©Ocean/Corbis; gas production:©Richard Megna/Fundamental Photographs; reaction between two solutions:©Richard Megna/Fundamental Photographs; beaker with sugar and sulfuric acid - before:©Charlie Winters/Timeframe Photography, Inc.; beaker with sugar and sulfuric acid - after:©Charlie Winters/Timeframe Photography, Inc.

**TEKS 6: Properties of Matter:****6B - Reading: Physical Properties**

teens play 20 questions:©Sam Dudgeon/Houghton Mifflin Harcourt; hot chocolate:©Victoria Smith/Houghton Mifflin Harcourt; worm on fishing line:©Sam Dudgeon/Houghton Mifflin Harcourt; glass with drink mix:©Peter Van Steen/Houghton Mifflin Harcourt; glass with water:©Sam Dudgeon/Houghton Mifflin Harcourt; copper wire on spool:©Sam Dudgeon/Houghton Mifflin Harcourt; corn in foil:©John Morrison/Morrison Photography/Houghton Mifflin Harcourt; golf and tennis balls:©John Morrison/Morrison Photography/Houghton Mifflin Harcourt; teen with tomatoes and cotton:©Victoria Smith/Houghton Mifflin Harcourt; crushed can:©Lance Schriener/Houghton Mifflin Harcourt; popsicle:©John Langford/Houghton Mifflin Harcourt; cylinder with layered liquids:©Richard Megna/Fundamental Photographs.

**TEKS 7: Energy Resources:****7B - Reading: Conservation involves reducing waste**

high school:©David Wei/Alamy Images; four students:©Houghton Mifflin Harcourt; staircase:©Jonathan Ross/Spaces Images/Corbis.

**TEKS 10: Earth's Structure:****10C - Lab Activity: Plate Tectonics: Tectonic Plate**

Phillippine island:©Farley Baricuatro/Flickr/Getty Images.

**TEKS 12: Organisms and Environments:****12A - Reading: Cells and Cells Theory**

Hooke's microscope:©Cecil H. Fox/Photo Researchers, Inc.; Euglena gracilis:©Eric V. Grave/Photo Researchers, Inc.; bacteria in compost:©SciMAT/Photo Researchers, Inc.; yeast cells:©SciMAT/Photo Researchers, Inc.; Robert Hooke's drawing of cork cells:©Universal History Archive/Universal Images Group/Photolibrary; blood cells:©Steve Allen/Photo Researchers, Inc.

**12B - Reading: Two Kinds of Cells**

heat-loving bacteria:©Wolfgang Baumeister/Science Photo Library/Photo Researchers, Inc.; eukaryotic cell:©Kallista Images/Custom Medical Stock Photos.

**12D - Lab Activity: Sorting Things Out**

giant panda:©DLILLC/Corbis; racoon:©Joel Sartore/National Geographic/Getty Images; spectacled bear:©Matthew Hart/Alamy; hands holding compost:©Chris Leschinsky/Digital Vision/Getty Images; Morning Glory Pool in Yellowstone:©Mark Hamblin/age fotostock/Photolibrary New York; beaver:©Arco Images GmbH/Alamy Images; red-eyed tree frog:©Digital Vision/Getty Images; yellow pansy butterfly:©H Lansdown/Alamy; american goldfinch:©Tim Zurowski/All Canada Photos/Corbis; red panda:©Byron Jorjorian/Stone/Getty Images; Staphylococcus epidermidis bacteria (SEM):©Eye of Science/Photo Researchers, Inc.;

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### **12D - Reading: Animal Kingdom and Protista**

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### **12D - Reading: Asexual Reproduction Involves One Parent**

yellow morels:©Robert Marien/Corbis; mushrooms in the forest near Lake Colibita, Romania:©HMH; orange lichen:©H Lansdown/Alamy; bread mold:©Dr. Jeremy Burgess/Science Photo Library; fungus releases spores:©Simon Booth/Photo Researchers, Inc.; mushrooms grow on old tree:©Christoph Burki/Photographer's Choice/Getty Images; mold growing on bread:©Biophoto Associates/Photo Researchers, Inc.

### **12E - Reading: Biotic Factors**

tick:©Alfred Schaubhuber/age footstock; honey bee on daisy:©Jason Hosking/Taxi/Getty Images; lichen:©Kathy Wright/Alamy; dog in field:©Randy M. Ury/Surf/Corbis; wild horses at watering hole:©VisionsofAmerica/Joe Sohm/The Image Bank/Getty Images.

### **12E - Reading: Everything is Connected**

goldenrod spider:©Hans Pfletschinger/Peter Arnold, Inc./Alamy Images; fire salamander:©Hans Pfletschinger/Peter Arnold Images/Photolibrary New York; forest:©Jupiterimages/Getty Images; yellow jacket wasp:©Frank Greenaway/Dorling Kindersley; black-headed pitohui:©W. Peckover/Academy of Natural Sciences Philadelphia/VIREO; coral reef and tropical fish:©Adam Powell/Taxi/Getty Images; coral polyps:©Oxford Scientific/Photolibrary; lemon shark:©Jonathan Bird/Peter Arnold, Inc./Alamy Images.

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## Art and Photography Credits: Science

### TEKS Grade 7

#### TEKS 1: Lab Safety and Conservation:

##### 1A - Reading: Lab Safety

pill bug #1:©Mark Smith/Photo Researchers, Inc.; teacher with student at microscope:©Corbis;  
pill bug #2:©Nigel Cattlin/Photo Researchers, Inc.

#### TEKS 3: Scientific Reasoning:

##### 3D - Reading: Discoveries in Biodiversity

pancake stingray:©Solent News/Rex Features/AP Images; biodiversity map:©UNEP-WCMC, 2002 World Atlas of Biodiversity; Sulfolobus archaea:©Eye of Science/Photo Researchers, Inc.; Sylvia Earle:©OAR/National Undersea Research Program (NURP)/National Oceanic and Atmospheric Administration (NOAA)/Department of Commerce; tube worms:©Emory Kristoff/National Geographic Society Image Collection; lizard artwork:©Academy of Natural Sciences Philadelphia/Corbis; marine timekeeper :©The Granger Collection, NYC — All rights reserved.; Linnaeus illustration:©The Natural History Museum, London; honey bee eye:©Photo Researchers, Inc.; Leeuwenhoek microscope:©The Granger Collection, NYC — All rights reserved.; butterfly:©The Natural History Museum, London.

##### 3D - Reading: Life Unearthed

fossil tools:©Richard T. Nowitz/Photo Researchers, Inc.; T-rex Sue:©John Oeth/Alamy Images; Lucy skeleton:©John Reader/Photo Researchers, Inc.; iguanodon:©The Natural History Museum, London; fossil:©The Natural History Museum, London; fossil dig:©O. Louis Mazzatenta/National Geographic Society Image Collection; Marrella:©The Natural History Museum, London; dawn redwood:©Geoffrey Bryant/Photo Researchers, Inc.; coelacanth:©Peter Scoones/Photo Researchers, Inc.; fossil dating:©James King-Holmes/Photo Researchers, Inc.; Sue Hendrickson:©Ira Block/National Geographic Society Image Collection; fossil dating:©James King-Holmes/Photo Researchers, Inc.; Fossil classification & DNA:©David Parker/Photo Researchers, Inc.; stromatolite:©John Reader/Science Photo Library/Photo Researchers, Inc.

##### 3D - Reading: The Story of Genetics

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#### TEKS 5: Interactions of Matter and Energy:

##### 5C - Reading: Living Things Need Energy

soil bacterium:©SciMAT/Photo Researchers, Inc.; wolf pup:©Zoonar GmbH/Alamy Images; coyote:©George H.H. Huey/Terra/Corbis; prairie dog babies:©D. Robert & Lorri Franz/Corbis; grassland:©Jason Brindel/Alamy Images; gray wolves in winter:©Naturfoto Honal/Corbis.

#### TEKS 6: Properties of Matter and Energy:

##### 6A - Reading: Organic Compounds

propane camping stove:©Sam Dudgeon/Houghton Mifflin Harcourt; banana:©John Langford/Houghton Mifflin Harcourt; rabbits:©Photodisc/Getty Images; lipids:©Sam Dudgeon/Houghton Mifflin Harcourt; guy with DNA model:©Guy Cali/Corbis; miner's helmet:©Charlie Winters/Timeframe Photography, Inc.; spider web:©Hans Reinhard/Bruce Coleman Inc/Photoshot.

## **TEKS 11: Variations in Organisms and Environments:**

### **11B - Reading: Natural Selection Explains How Living Things Evolve**

Tibetan terrier:©Dave Porter/Alamy Images; Cairn Terrier:©Rolf Kopfle/Ardea London Limited; airedale terrier:©Juniors Bildarchiv/Alamy Images; salmon eggs:©Heather Angel/Natural Visions/Alamy Images; cichlid (A):©Roberto Nistri/Alamy Images; cichlid (c) :©Roberto Nistri/Alamy Images; cichlid (b):©Roberto Nistri/Alamy Images; salmon:©Paul A. Souders/Corbis.

## **TEKS 12: Structures of Organisms and Environments:**

### **12C - Reading: A Multicellular Organism Is a Community of Cells**

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### **12F - Reading: Homeostasis & Cell Processes**

giraffe eating leaves:©Ocean/Corbis; woman drinks water:© Dave & Les Jacobs/Blend Images/Corbis; tree with leaves turning colors :©Digital Vision/Getty Images; alligators:©Arco Images GmbH/Alamy; skateboard:©blickwinkel/Alamy; didinium ingests paramecium:©Biophoto Associates/Photo Researchers, Inc.; micrograph of root section:©Steve Gschmeissner/Photo Researchers, Inc.; glass with tea bag:©Lippmann/photocuisine/Corbis; red jacket :© Ben Muir/zefa/Corbis; plant cell mitosis:©M. I. Walker/SPL/Photo Researchers, Inc.; turtle eggs:©Lynda Richardson/Peter Arnold Images/Photolibrary New York; turtle hatchling:©Mark Conlin/Oxford Scientific/Photolibrary New York; loggerhead turtle:©Maximilian Weinzierl/Alamy Images; mitosis interphase:©Ed Reschke/Peter Arnold Images/Photolibrary New York; mitosis prophase:©Ed Reschke/Peter Arnold Images/Photolibrary New York; mitosis metaphase:©Ed Reschke/Peter Arnold Images/Photolibrary New York; mitosis anaphase:©Ed Reschke/Peter Arnold Images/Photolibrary New York; mitosis telophase:©Ed Reschke/Peter Arnold Images/Photolibrary New York; cytokinesis:©Ed Reschke/Peter Arnold Images/Photolibrary New York; plant cell mitosis:©M. I. Walker/SPL/Photo Researchers, Inc.

### **12F - Reading: Photosynthesis & Cellular Respiration**

colored TEM of a mitochondrion:©K. R. Porter/Science Photo Library/Photo Researchers, Inc.; teen guy reads:©Rubberball/Getty Images; dew on leaf:©Oleg Shpak/Alamy Images; race:©Comstock/Getty Images; sunflowers:©Robert Laberge/Getty Images; girls playing soccer:©Ty Allison/Taxi/Getty Images; plant cell:©Dr. David Furness, Keele University/SPL/Photo Researchers, Inc.; plant cell with organelles:©Biophoto Associates/Photo Researchers, Inc.; koala:©Medford Taylor/National Geographic/Getty Images; plant cell:©Dr. David Furness, Keele University/SPL/Photo Researchers, Inc.; seedlings:©Nigel Cattlin/Photo Researchers, Inc.; bread dough:©Ingram Publishing/SuperStock.

## **TEKS 13: Organisms and Stimuli:**

### **13A - Reading: Plant Responses to the Environment**

plant bends to light:©Cathlyn Melloan/Stone/Getty Images.

## **TEKS 14: Organisms Reproduce:**

**14B - Reading: Meiosis is Necessary for Asexual Reproduction**

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**14C – Reading: Meiosis is Necessary for Asexual Reproduction**

pipe cleaners:©Houghton Mifflin Harcourt; human sperm cells:©Pascal Goetgheluck/Photo Researchers, Inc.; human egg:©Pascal Goetgheluck/Photo Researchers, Inc.; fertilization model materials:©Houghton Mifflin Harcourt; pipe cleaners:©Houghton Mifflin Harcourt; human sperm cells:©Pascal Goetgheluck/Photo Researchers, Inc.; human egg:©Pascal Goetgheluck/Photo Researchers, Inc.; fertilization model materials:©Houghton Mifflin Harcourt.

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## Art and Photography Credits: Science

### TEKS Grade 8

#### TEKS 1: Lab Safety and Conservation:

##### 1A - Lab Activity: Flame Tests

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#### TEKS 3: Scientific Processes:

##### 3D - Reading: The Story of Astronomy

Fermilab:©Fermilab/Photo Researchers, Inc.; Tycho Brahe:©Stapleton Collection/Corbis; Isaac Newton:©Science Museum/Science & Society Picture Library; Henrietta Leavitt:©Harvard College Observatory/Photo Researchers, Inc.; cosmic microwave background:©Science Source/Photo Researchers, Inc.; astrolabe:©SSPL via Getty Images; Copernicus's heliocentric model:©Royal Astronomical Society/Photo Researchers, Inc.; telescope:©SSPL via Getty Images; Hubble Deep Field:©NASA/Robert Williams and the Hubble Deep Field Team (STScI); supernova:©NASA/Ann Feild (STScI); spectral star classification:©NOAO/Photo Researchers, Inc.

##### 3D - Reading: The Story of Fossils

Smith's map of England:©Courtesy of the British Geological Society; tyrannosaurus rex skull:©Ira Block/National Geographic/Getty Images; earliest mammal fossil:©Mark A Klingler/Carnegie Museum of Natural History; woolly mammoths:©Gianni Dagli Orti/Corbis; dinosaur eggs:©Bettmann/Corbis; radiocarbon dating:©James King-Holmes/Photo Researchers, Inc.; Nicholas Steno:©The Granger Collection, NYC — All rights reserved.; megalosaurus jaw:©Natural History Museum, London; archaeopteryx fossil:©Sally A Morgan/Eduscene/Corbis; sandstone layers:©Kevin Schafer/Alamy Images.

##### 3D - Reading: The Story of Light

Dr. Theodore Maiman:©Bettmann/Corbis; Newton's telescope:©Dr Jeremy Burgess/Science Photo Library/Photo Researchers, Inc.; Euclid:©The Granger Collection, NYC — All rights reserved.; Sir Isaac Newton:©Granger Collection; Euclid:©The Granger Collection, NYC — All rights reserved.; Sir Isaac Newton:©Granger Collection; camera obscura:©World History Archive/Alamy Images; razor blade:©Ken Kay/Fundamental Photographs; light wave interference pattern:©sciencephotos/Alamy Images; shark hologram:©Darby Sawchuk/Alamy Images; laser eye surgery:©Ilene MacDonald/Alamy Images; Jupiter:NASA Jet Propulsion Laboratory (NASA-JPL); Ali Alhazen's Book of Optics:©Universal Images Group/Superstock.

#### TEKS 5: Matter and Energy:

##### 5B - Reading: Electrons and Chemical Bonding

pottery class:©John Kelly/The Image Bank/Getty Images.

##### 5D - Reading: Chemical Formulas & Equations

cobalt:©Charles D Winters/Photo Researchers, Inc.; fire extinguisher:©Ingram Publishing/Alamy Images.

#### TEKS 7: Sun, Earth and Moon:

##### 7C - Reading: The Gravity of the Sun and Moon Cause Tides

tidal pools :©Willard Clay/Photographer's Choice RF/Getty Images

## **TEKS 8: The Universe:**

### **8B – Reading: Our Solar System Lies in Milky Way Galaxy**

Earth:©Corbis; Magellanic cloud:©NASA,ESA,and the Hubble Heritage Team(STScI/AURA)-ESA/Hubble Collaboration;The Milky Way:©NASA/JPL-Caltech; magellanic cloud:©NASA,ESA,and the Hubble Heritage Team(STScI/AURA)-ESA/Hubble Collaboration.

## **TEKS 9: Earth Systems:**

### **9C - Lab Activity: Studying Volcanoes w/Satellites**

Soufriere Hills volcano:©Stephen and Donna O'Meara/Photo Researchers; Barry Voight:©The Chedd-Angier Production Company; Volcanic eruptions:©NASA Goddard Space Flight Center/METI/ERSDAC/JAROS, and U.S./Japan ASTER Science Team; Pavlof Volcano:©Photograph by T. Miller/U.S. Geological Survey; Pavlof Volcano on map:©U.S. Geological Survey; Hawaiian lava flows:©NASA Goddard Space Flight Center/METI/ERSDAC/JAROS, and U.S./Japan ASTER Science Team.

### **9C - Reading: Topographic Maps**

Gaua Volcano:©StockTrek/Getty Images; Hurricane Igor:©NOAA/Getty Images; Las Vegas 1973:©Andrew Freeberg(NASA/GSFC); Las Vegas 2006:©Andrew Freeberg(NASA/GSFC); Mississippi Delta:©USGS.

## **TEKS 11: Organisms and Environments:**

### **11A - Lab Activity: Energy Flows Through Ecosystems**

Cattail marsh:©Raymond Gehman/Corbis.

### **11A - Reading: Living Things Need Energy**

Atlantic puffin:©John Short/Design Pics/Corbis; killer whale:©ImageState/Alamy Images; harbor seal:©WILDLIFE GmbH/Alamy Images; Atlantic cod:©Blickwinkel/Alamy Images; sandeel:©PictureScotland/Alamy Images; Megacalanus princeps:©Natural Visions/Alamy Images; sun rays:©CLICK\_HERE/Alamy Images; Atlantic herring:©Blickwinkel/Alamy Images; short-fin squid:©Jeff Rotman/Photo Researchers, Inc.; Atlantic cod:©Blickwinkel/Alamy Images; Atlantic herring:©Blickwinkel/Alamy Images; short-fin squid:©Jeff Rotman/Photo Researchers, Inc.; seagull:©Stockbyte/Getty Images; phytoplankton:©Science Photo Library/Alamy Images; seagull:©Stockbyte/Getty Images; Atlantic puffin:©John Short/Design Pics/Corbis; Atlantic puffin:©John Short/Design Pics/Corbis.

### **11A - Reading: Symbiosis**

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### **11C - Reading: Natural Selection**

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