

TITLE	MA STANDARDS ADDRESSED	GR LEVEL	LEXILE LEVEL	BOOK SUMMARY	VOCABULARY
All About the Moon ISBN 0022859330 6 PK ISBN 002286654X	Earth/Space # 8, Earth/Space # 9, Earth/Space # 10	Z	730	<i>All About the Moon</i> compares and contrasts Earth and the Moon, describes the history of the Moon landings, explains the motion of the Moon, and discusses the phases of the Moon.	crater lunar mare orbit satellite
Alloys ISBN 0022859381 6 PK ISBN 0022866574	Physical # 7, Physical # 8, Physical # 9, Tech/Eng 1.1	Y	860	<i>Alloys</i> describes historical uses of metals and alloys, such as bronze and iron. It also describes current applications of alloys and possible future uses of alloys.	alloy bronze corrosion iron steel
Amazing Water ISBN 0022859209 6 PK ISBN 0022866558	Earth/Space # 6, Life # 4, Physical # 5, Physical # 6, Physical # 8, Physical # 9, Physical # 14, Physical # 15	T	560	The unique properties of water, uses of water, the water cycle, water pollution, and the possibility of water on other planets are described in <i>Amazing Water</i> .	condense evaporate precipitation solvent surface tension
Animal Migration ISBN 0022859179 6 PK ISBN 0022866426	6.2.D.4, Life # 13, Life # 17	S	670	<i>Animal Migration</i> explores the migration patterns of whales, monarch butterflies, warblers, and sea turtles. The life cycle of the Monarch butterfly is diagrammed, and maps are used to illustrate migration routes.	habitat metamorphosis migration plankton predator
Antarctica: Land of Snow and Ice ISBN 0022847324 6 PK ISBN 0022865179	Earth/Space # 1, Earth/Space # 5, 6.2.D.4, Life # 13, Life # 17	V	900	In <i>Antarctica: Land of Snow and Ice</i> , the terms <i>habitat</i> , <i>biome</i> , and <i>ecosystem</i> are defined. The climate and living things of Antarctica are described.	biome ecosystem glacier habitat microhabitat
Bacteria and Viruses ISBN 0022859292 6 PK ISBN 0022866442	Life # 1, Life # 2, Life # 3, Life # 4, Life # 9, Life # 14, Life # 15, Tech/Eng 7.2	Y	660	<i>Bacteria and Viruses</i> begins with a discussion of early discoveries related to microscopes and microorganisms. Various types of bacteria are discussed and pictured. The role of bacteria in ecosystems and ways that bacteria impact humans are also discussed.	antibiotic microscope pasteurization virus

* - Also available in an English Language Learner version

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Building a Biome * ISBN 0022847332 6 PK ISBN 0022865187	Earth/Space # 1, Life # 12, Life # 13, Life # 14, Life # 15, Life # 16, Life # 18, Tech/Eng 1.1	X	910	Construction of the deserts biome in the Indianapolis Zoo is described in <i>Building a Biome</i> . Characteristics of desert biomes are described and career opportunities at zoos are identified.	biome conservation ecosystem precipitation species
Carbon ISBN 0022859217 6 PK ISBN 0022866582	Life # 14, Life # 16, Life # 17, Physical # 5, Physical # 7, Tech/Eng 1.1	S	600	<i>Carbon</i> describes forms of carbon, uses of carbon, the role of carbon in living things, the carbon cycle, fossil fuels, and the greenhouse effect.	Atom compound element organic compound respiration
Changes at Earth's Surface ISBN 0022847421 6 PK ISBN 0022865276	Earth/Space # 6	V	880	<i>Changes at Earth's Surface</i> describes physical and chemical weathering, erosion, deposition, and the changes that result from these processes.	chemical weathering deposition erosion gravity physical weathering
Chemical Changes * ISBN 0022859276 6 PK ISBN 0022866590	Physical # 5, Physical # 7, Physical # 10	X	630	<i>Chemical Changes</i> contains a description of the signs that indicate a chemical change has occurred, everyday applications of chemical changes, and chemical changes that occur in organisms.	chemical change combustion compound element reaction
Discovering the Secrets of Cells * ISBN 0022859233 6 PK ISBN 0022866469	Life # 2, Life # 4, Life # 7, Life # 8, Physical # 6	X	720	<i>Discovering the Secrets of Cells</i> explores careers in cell biology, the function of organelles, and tools such as computers that are used in cell research.	Cell DNA gene neuron nucleus
DNA Fingerprinting ISBN 0022859322 6 PK ISBN 0022866515	Life # 7, Life # 8, Life # 11	Y	720	<i>DNA Fingerprinting</i> describes applications of DNA technology to solving crimes, tracing ancestry, solving historical mysteries, and tracking genetic diseases.	Base DNA fingerprinting gene inherit mutation

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Do Fossil Fuels Have a Future? * ISBN 0022847499 6 PK ISBN 0022865349	Life # 15, Life # 16, Life # 17, Tech/Eng 6.1, Tech/Eng 7.2	X	900	<i>Do Fossil Fuels Have a Future?</i> explains the formation of fossil fuels, methods of mining fossil fuels, consequences of the use of fossil fuels, and possible alternatives to fossil fuels.	acid rain coal decompose fossil fuel petroleum
Earth's Changing Climate * ISBN 002285925X 6 PK ISBN 0022866523	Earth/Space # 4, Earth/Space # 5, Earth/Space # 7, Earth/Space # 11, Life # 12, Life # 17	W	740	Climate, climate change, and the science of studying climates are discussed in <i>Earth's Changing Climate</i> .	climate climatologist core drought weather
Ecosystems ISBN 0022847316 6 PK ISBN 0022865160	Life # 12, Life # 13, Life # 14, Life # 15, Life # 16, Life # 17	Y	910	<i>Ecosystems</i> discusses energy flow within ecosystems, human impact on ecosystems, and ways that individuals can have a positive impact on ecosystems.	conservation consumer decomposer ecosystem producer
Einstein, Newton, and Gravity ISBN 0022859489 6 PK ISBN 0022866639	Earth/Space # 8, Earth/Space # 10	X	760	<i>Einstein, Newton, and Gravity</i> discusses the development of ideas about gravity and space-time, and highlights the cumulative nature of scientific knowledge.	force gravity inertia mass theory
Energy Hunter * ISBN 0022847367 6 PK ISBN 0022865225	Earth/Space # 2, Life # 16, Life # 17, Tech/Eng 7.2	X	810	<i>Energy Hunter</i> identifies sources of energy including biomass, geothermal, solar, fossil fuels, and nuclear reactions.	biomass geothermal energy nuclear fusion renewable solar energy
Exploring the Ocean Depths * ISBN 0022859268 6 PK ISBN 0022866566	Life # 2, Life # 13, Life # 17, Tech/Eng 6.1	X	710	<i>Exploring the Ocean Depths</i> describes how technology is used to advance science by allowing humans to explore the deepest parts of the ocean.	adaptation bioluminescence geyser hydrothermal vent probe

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TITLE	MA STANDARDS ADDRESSED	GR LEVEL	LEXILE LEVEL	BOOK SUMMARY	VOCABULARY
Finding Our Way ISBN 0022859195 6 PK ISBN 0022866531	Earth/Space # 11	T	640	<i>Finding Our Way</i> describes methods of navigation, longitude and latitude, historic navigation tools, and modern navigation tools such as GPS.	astrolabe compass Global Positioning System (GPS) latitude longitude
Fire in the Sierra Nevada ISBN 0022847340 6 PK ISBN 0022865195	Earth/Space # 1, Life # 13, Life # 16, Life # 17	Y	840	<i>Fire in the Sierra Nevada</i> describes the communities of living things found in the Sierra Nevada and the role that fire plays in keeping this ecosystem in balance.	chaparral ecosystem habitat ignite vegetation
Foods that Feed the World * ISBN 0022859225 6 PK ISBN 0022866434	Tech/Eng 7.2	X	730	<i>Foods That Feed the World</i> describes agriculture, food production, and ways that science has improved agricultural practices over time.	agriculture fertilizer pesticide breeding staple
Greenhouse Effect ISBN 0022847456 6 PK ISBN 0022865306	Earth/Space # 4, Earth/Space # 7, Earth/Space # 10, Life # 16, Life # 17, Physical # 14	V	820	<i>Greenhouse Effect</i> describes the role of the greenhouse effect in making Earth habitable and describes ways that human activity impacts the greenhouse effect, the ozone layer, and global climate.	atmosphere carbon dioxide deforestation global warming greenhouse effect
Gregor Mendel * ISBN 0022859241 6 PK ISBN 0022866493	Life # 7, Life # 8, Life # 9, Tech/Eng 7.2	W	710	In <i>Gregor Mendel</i> , the experimental methods used by Gregor Mendel are described. This book also describes how Mendel's results used ratios, discusses Mendel's laws, and identifies ways that Mendel's work impacted the work of other scientists.	dominant genetics heredity hybrid recessive
Hidden Life In A Pond ISBN 0022859314 6 PK ISBN 0022866477	Life # 1, Life # 2, Life # 4, Life # 13, Life # 14, Life # 15, Life # 16	Y	720	<i>Hidden Life in a Pond</i> identifies microorganisms found in pond water and explains the history of the microscope.	algae bacteria food web habitat protozoa

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How Do Toys Work? * ISBN 0022859284 6 PK ISBN 0022866620	Earth/Space # 8, Physical # 1, Physical # 11, Physical # 13	W	710	<i>How Do Toys Work?</i> applies concepts of physics, such as motion, forces, friction, and momentum to toys such as yo-yos and model airplanes.	energy force friction gravity momentum
Microorganisms ISBN 0022859187 6 PK ISBN 0022866450	Life # 1, Life # 2, Life # 15, Life # 16	S	570	<i>Microorganisms</i> identifies types of microorganisms, discusses the development of the microscope, and explains the role of microorganisms in disease and in food production.	antibiotic bacteria microbe protist vaccine
Microwaves and Cooking ISBN 0022847480 6 PK ISBN 0022865330	Tech/Eng 2.1	W	820	<i>Microwaves and Cooking</i> describes the accidental discovery that microwaves cook food, development of the microwave oven over time, and the process of scientific invention.	electron magnetron microwave nonionizing radiation patent
Nuclear Medicine ISBN 0022859349 6 PK ISBN 0022866604	Life # 8, Tech/Eng 7.2	Y	750	<i>Nuclear Medicine</i> describes the application of radioactive materials in medicine. The book describes X rays, bone scans, MRI, and radiation therapy.	barium CT scan MRI nuclear medicine X ray
Power for Our Future ISBN 0022847375 6 PK ISBN 0022865233	Earth/Space # 2, Earth/Space # 4, Life # 17, Physical # 5, Tech/Eng 6.1	Y	940	<i>Power For Our Future</i> describes the need for renewable energy resources such as solar energy, geothermal energy, fuel cells, and biomass fuels.	geothermal energy hydrogen solar power renewable tidal energy
Powered by the Sun ISBN 0022847472 6 PK ISBN 0022865322	Earth/Space # 4, Earth/Space # 10, Tech/Eng 6.1	Y	890	<i>Powered By the Sun</i> describes nuclear fusion in the Sun and the role of the Sun's energy in the water cycle and fossil fuel formation. It also describes ways that solar energy can be captured and used to make electricity, heat water, heat homes, and power spacecraft.	array insulation nuclear fusion renewable resource solar energy

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Skates, Bikes, and Rockets ISBN 0022859470 6 PK ISBN 0022866612	Earth/Space # 8, Physical # 1, Physical # 11	S	830	<i>Skates, Bikes, and Rockets</i> describes how Newton's laws of motion are demonstrated by inline skates, ice skates, bicycles, and rockets.	force friction gravity inertia newton
Sun Storms * ISBN 0022847464 6 PK ISBN 0022865314	Earth/Space # 9, Earth/Space # 10	X	900	<i>Sun Storms</i> describes solar events such as solar flares and sunspots and the way these events affect Earth. It also describes methods scientists use to study the Sun.	corona magnetic field plasma solar flare sunspot
The Ring of Fire ISBN 0022847413 6 PK ISBN 0022865268	Earth/Space # 1, Earth/Space # 2, Earth/Space # 5, Earth/Space # 6, Life # 17	Z	940	<i>The Ring of Fire</i> describes the most severe earthquakes and volcanic events associated with the Ring of Fire. Tsunamis and tsunami warning systems are also discussed.	aftershock earthquake seismic tsunami volcano
The Story of DNA ISBN 0022859446 6 PK ISBN 0022866485	Life # 7, Life # 8, Tech/Eng 7.2	S	840	<i>The Story of DNA</i> highlights the discoveries of Watson and Crick, Mendel, Wilkins and Franklin, and Francis Collins. It discusses the role of DNA in the inheritance of traits and new developments in DNA technology.	cell DNA gene genetics mutate
Tracing the Food Web ISBN 0022847286 6 PK ISBN 0022865144	Life # 13, Life # 14, Life # 15, Life # 16, Life # 17	V	860	The flow of energy in a variety of ecosystems is described in <i>Tracing the Food Web</i> . Human impact on the world's ecosystems is also described.	Consumer decomposer ecosystem food chain food web
Tsunami! * ISBN 0022847391 6 PK ISBN 002286525X	Earth/Space # 1, Earth/Space # 5	X	880	<i>Tsunami!</i> describes the formation and aftermath of the tsunami of December 26, 2004, as well as ways that tsunamis can be predicted and prepared for.	geologist lithosphere meteorite Richter scale tectonic plate

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Massachusetts Science and Technology/Engineering Curriculum Framework

Standard 6.1**Earth and Space Science, Grade 6****A****Mapping the Earth**

Earth/Space # 1

Recognize, interpret, and be able to create models of the earth's common physical features in various mapping representations, including contour maps.

B**Earth's Structure**

Earth/Space # 2

Describe the layers of the earth, including the lithosphere, the hot convecting mantle, and the dense metallic core.

C**Heat Transfer in the Earth System**

Earth/Space # 3

Differentiate among radiation, conduction, and convection, the three mechanisms by which heat is transferred through the earth's system.

Earth/Space # 4

Explain the relationship among the energy provided by the sun, the global patterns of atmospheric movement, and the temperature differences among water, land, and atmosphere.

D**Earth's History**

Earth/Space # 5

Describe how the movement of the earth's crustal plates causes both slow changes in the earth's surface (e.g., formation of mountains and ocean basins) and rapid ones (e.g., volcanic eruptions and earthquakes).

Earth/Space # 6

Describe and give examples of ways in which the earth's surface is built up and torn down by natural processes, including deposition of sediments, rock formation, erosion, and weathering.

Earth/Space # 7

Explain and give examples of how physical evidence, such as fossils and surface features of glaciation, supports theories that the earth has evolved over geologic time.

E**The Earth in the Solar System**

Earth/Space # 8

Recognize that gravity is a force that pulls all things on and near the earth toward the center of the earth. Gravity plays a major role in the formation of the planets, stars, and solar system and in determining their motions.

- Earth/Space # 9 Describe lunar and solar eclipses, the observed moon phases, and tides. Relate them to the relative positions of the earth, moon, and sun.
- Earth/Space # 10 Compare and contrast properties and conditions of objects in the solar system (i.e., sun, planets, and moons) to those on Earth (i.e., gravitational force, distance from the sun, speed, movement, temperature, and atmospheric conditions).
- Earth/Space # 11 Explain how the tilt of the earth and its revolution around the sun result in an uneven heating of the earth, which in turn causes the seasons.
- Earth/Space # 12 Recognize that the universe contains many billions of galaxies, and that each galaxy contains many billions of stars.

Standard 6.2**Life Science (Biology), Grade 6****A****Classification of Organisms**

- Life # 1 Classify organisms into the currently recognized kingdoms according to characteristics that they share. Be familiar with organisms from each kingdom.

B**Structure and Function of Cells**

- Life # 2 Recognize that all organisms are composed of cells, and that many organisms are single-celled (unicellular), e.g., bacteria, yeast. In these single-celled organisms, one cell must carry out all of the basic functions of life.
- Life # 3 Compare and contrast plant and animal cells, including major organelles (cell membrane, cell wall, nucleus, cytoplasm, chloroplasts, mitochondria, vacuoles).
- Life # 4 Recognize that within cells, many of the basic functions of organisms (e.g., extracting energy from food and getting rid of waste) are carried out. The way in which cells function is similar in all living organisms.

C**Systems in Living Things**

- Life # 5 Describe the hierarchical organization of multicellular organisms from cells to tissues to organs to systems to organisms.
- Life # 6 Identify the general functions of the major systems of the human body (digestion, respiration, reproduction, circulation, excretion, protection from disease, and movement, control, and coordination) and describe ways that these systems interact with each other.

D**Reproduction and Heredity**

Life # 7

Recognize that every organism requires a set of instructions that specifies its traits. These instructions are stored in the organism's chromosomes. Heredity is the passage of these instructions from one generation to another.

Life # 8

Recognize that hereditary information is contained in genes located in the chromosomes of each cell. A human cell contains about 30,000 different genes on 23 different chromosomes.

Life # 9

Compare sexual reproduction (offspring inherit half of their genes from each parent) with asexual reproduction (offspring is an identical copy of the parent's cell).

E**Evolution and Biodiversity**

Life # 10

Give examples of ways in which genetic variation and environmental factors are causes of evolution and the diversity of organisms.

Life # 11

Recognize that evidence drawn from geology, fossils, and comparative anatomy provides the basis of the theory of evolution.

Life # 12

Relate the extinction of species to a mismatch of adaptation and the environment.

F**Living Things and Their Environment**

Life # 13

Give examples of ways in which organisms interact and have different functions within an ecosystem that enable the ecosystem to survive.

G**Energy and Living Things**

Life # 14

Explain the roles and relationships among producers, consumers, and decomposers in the process of energy transfer in a food web.

Life # 15

Explain how dead plants and animals are broken down by other living organisms and how this process contributes to the system as a whole.

Life # 16

Recognize that producers (plants that contain chlorophyll) use the energy from sunlight to make sugars from carbon dioxide and water through a process called photosynthesis. This food can be used immediately, stored for later use, or used by other organisms.

H**Changes in Ecosystems Over Time**

Life # 17

Identify ways in which ecosystems have changed throughout geologic time in response to physical conditions, interactions among organisms, and the actions of humans. Describe how changes may be catastrophes such as volcanic eruptions or ice storms.

Life # 18

Recognize that biological evolution accounts for the diversity of species developed through gradual processes over many generations.

Standard 6.3**Physical Sciences (Chemistry and Physics), Grade 6****A****Properties of Matter**

Physical # 1

Differentiate between weight and mass, recognizing that weight is the amount of gravitational pull on an object.

Physical # 2

Differentiate between volume and mass. Define density.

Physical # 3 Recognize that the measurement of volume and mass requires understanding of the sensitivity of measurement tools (e.g., rulers, graduated cylinders, balances) and knowledge and appropriate use of significant digits.

Physical # 4 Explain and give examples of how mass is conserved in a closed system.

B **Elements, Compounds, and Mixtures**

Physical # 5 Recognize that there are more than 100 elements that combine in a multitude of ways to produce compounds that make up all of the living and nonliving things that we encounter.

Physical # 6 Differentiate between an atom (the smallest unit of an element that maintains the characteristics of that element) and a molecule (the smallest unit of a compound that maintains the characteristics of that compound).

Physical # 7 Give basic examples of elements and compounds.

Physical # 8 Differentiate between mixtures and pure substances.

Physical # 9 Recognize that a substance (element or compound) has a melting point and a boiling point, both of which are independent of the amount of the sample.

Physical # 10 Differentiate between physical changes and chemical changes.

C **Motion of Objects**

Physical # 11 Explain and give examples of how the motion of an object can be described by its position, direction of motion, and speed.

Physical # 12

Graph and interpret distance vs. time graphs for constant speed.

D**Forms of Energy**

Physical # 13

Differentiate between potential and kinetic energy. Identify situations where kinetic energy is transformed into potential energy and vice versa.

E**Heat Energy**

Physical # 14

Recognize that heat is a form of energy and that temperature change results from adding or taking away heat from a system.

Physical # 15

Explain the effect of heat on particle motion through a description of what happens to particles during a change in phase.

Physical # 16

Give examples of how heat moves in predictable ways, moving from warmer objects to cooler ones until they reach equilibrium.

Standard 6.4**Technology/Engineering, Grade 6****A****Materials, Tools, and Machines**

Tech/Eng # 1.1

Given a design task, identify appropriate materials (e.g., wood, paper, plastic, aggregates, ceramics, metals, solvents, adhesives) based on specific properties and characteristics (e.g., strength, hardness, and flexibility).

Tech/Eng # 1.2

Identify and explain appropriate measuring tools, hand tools, and power tools used to hold, lift, carry, fasten, and separate, and explain their safe and proper use.

Tech/Eng # 1.3

Identify and explain the safe and proper use of measuring tools, hand tools, and machines (e.g., band saw, drill press, sander, hammer, screwdriver, pliers, tape measure, screws, nails, and other mechanical fasteners) needed to construct a prototype of an engineering design.

B

Engineering Design

Tech/Eng # 2.1

Identify and explain the steps of the engineering design process, i.e., identify the need or problem, research the problem, develop possible solutions, select the best possible solution(s), construct a prototype, test and evaluate, communicate the solution(s), and redesign.

Tech/Eng # 2.2

Demonstrate methods of representing solutions to a design problem, e.g., sketches, orthographic projections, multiview drawings.

Tech/Eng # 2.3

Describe and explain the purpose of a given prototype.

Tech/Eng # 2.4

Identify appropriate materials, tools, and machines needed to construct a prototype of a given engineering design.

Tech/Eng # 2.5

Explain how such design features as size, shape, weight, function, and cost limitations would affect the construction of a given prototype.

Tech/Eng # 2.6

Identify the five elements of a universal systems model: goal, inputs, processes, outputs, and feedback.

C

Communication Technologies

Tech/Eng # 3.1

Identify and explain the components of a communication system, i.e., source, encoder, transmitter, receiver, decoder, storage, retrieval, and destination.

- Tech/Eng # 3.2 Identify and explain the appropriate tools, machines, and electronic devices (e.g., drawing tools, computer-aided design, and cameras) used to produce and/or reproduce design solutions (e.g., engineering drawings, prototypes, and reports).
- Tech/Eng # 3.3 Identify and compare communication technologies and systems, i.e., audio, visual, printed, and mass communication.
- Tech/Eng # 3.4 Identify and explain how symbols and icons (e.g., international symbols and graphics) are used to communicate a message.

D Manufacturing Technologies

- Tech/Eng # 4.1 Describe and explain the manufacturing systems of custom and mass production.
- Tech/Eng # 4.2 Explain and give examples of the impacts of interchangeable parts, components of mass-produced products, and the use of automation, e.g., robotics.
- Tech/Eng # 4.3 Describe a manufacturing organization, e.g., corporate structure, research and development, production, marketing, quality control, distribution.
- Tech/Eng # 4.4 Explain basic processes in manufacturing systems, e.g., cutting, shaping, assembling, joining, finishing, quality control, and safety.

E Construction Technologies

- Tech/Eng # 5.1 Describe and explain parts of a structure, e.g., foundation, flooring, decking, wall, roofing systems.
- Tech/Eng # 5.2 Identify and describe three major types of bridges (e.g., arch, beam, and suspension) and their appropriate uses (e.g., site, span, resources, and load).

Tech/Eng # 5.3 Explain how the forces of tension, compression, torsion, bending, and shear affect the performance of bridges.

Tech/Eng # 5.4 Describe and explain the effects of loads and structural shapes on bridges.

F **Transportation Technologies**

Tech/Eng # 6.1 Identify and compare examples of transportation systems and devices that operate on or in each of the following: land, air, water, and space.

Tech/Eng # 6.2 Given a transportation problem, explain a possible solution using the universal systems model.

Tech/Eng # 6.3 Identify and describe three subsystems of a transportation vehicle or device, i.e., structural, propulsion, guidance, suspension, control, and support.

Tech/Eng # 6.4 Identify and explain lift, drag, friction, thrust, and gravity in a vehicle or device, e.g., cars, boats, airplanes, rockets.

G **Bioengineering Technologies**

Tech/Eng # 7.1 Explain examples of adaptive or assistive devices, e.g., prosthetic devices, wheelchairs, eyeglasses, grab bars, hearing aids, lifts, braces.

Tech/Eng # 7.2 Describe and explain adaptive and assistive bioengineered products, e.g., food, bio-fuels, irradiation, integrated pest management.