

7th Grade/ Life Science

SEMESTER 1 UNITS	OBJECTIVE:	STANDARDS:	RESOURCE MATERIALS:	ASSESSMENTS/ASSIGNMENTS:
UNIT 1: LIVING THINGS IN THE BIOSPHERE	Explore living things, including: viruses, bacteria, protists, fungi, plants and animals and how organisms from these various groups impact humans	PS-MS-LS1-1 PS-MS-LS1-5 MS-LS1-A-1 MS-LS1-A-3 MS-LS1-B-3	Savvas	Bell Ringers Weekly/Daily Activities Quizzes Final Unit Test
UNIT 2: THE CELL SYSTEM	The organization and development of cells, cell structure, and understanding cell functions	PS-MS-LS1-1 PS-MS-LS1-2 MS-LS1-A-1 MS-LS1-A-2	Savvas	Bell Ringers Weekly/Daily Activities Quizzes Final Unit Test
UNIT 3: THE HUMAN BODY	How human body organs and their systems interact, which supports student understanding of the importance of making healthy lifestyle decisions with regard to their physical and nutritional health	PS-MS-LS1-3 PS-MS-LS1-8 MS-LS1-A-3 MS-LS1-D-1	Savvas	Bell Ringers Weekly/Daily Activities Quizzes Final Unit Test
SEMESTER 2 UNITS	OBJECTIVE:	STANDARDS:	RESOURCE MATERIALS:	ASSESSMENTS/ASSIGNMENTS:

UNIT 4: REPRODUCTION & GROWTH	Learning how plants and animals reproduce and grow, and understanding the importance of environmental factors in the growth of all living things	PS-MS-LS1-4 PS-MS-LS3-2 PS-MS-LS4-4 MS-LS1-B-1 MS-LS1-B-2 MS-LS3-A-2 MS-LS3-B-1	Savvas	Bell Ringers Weekly/Daily Activities Quizzes Final Unit Test
UNIT 5: ECOSYSTEMS	Patterns of interactions between living and nonliving things in an ecosystem, and how these interactions affect resource availability	PS-MS-LS2-1 PS-MS-LS4-1 MS-LS1-C-1 MS-LS2-A-1 MS-LS2-A-2 MS-LS2-A-3 MS-LS2-A-4	Savvas	Bell Ringers Weekly/Daily Activities Quizzes Final Unit Test
UNIT 6: POPULATIONS, COMMUNITIES, & ECOSYSTEMS	Understanding organism's interactions in ecosystems and factors that affect their populations, while recognizing the importance of biodiversity for sustaining life on Earth	PS-MS-LS2-2 MS-LS2-A-1 MS-LS2-A-2 MS-LS2-A-3 MS-LS2-B-1 MS-LS2-B-2	Savvas	Bell Ringers Weekly/Daily Activities Quizzes Final Unit Test
UNIT 7: GENES & HEREDITY	Patterns of reproduction and inheritance, and how offspring receive traits from their parents	PS-MS-LS3-1 PS-MS-LS3-2 PS-MS-LS4-5 MS-LS3-A-1 MS-LS3-B-1	Savvas	Bell Ringers Weekly/Daily Activities Quizzes Final Unit Test
UNIT 8: NATURAL SELECTION & CHANGE OVER TIME	Explore the processes that explain how organisms change over time	PS-MS-LS4-2 PS-MS-LS4-4 MS-LS4-A-2	Savvas	Bell Ringers Weekly/Daily Activities Quizzes Final Unit Test

8th Grade/ Earth Science

SEMESTER 1 UNITS	OBJECTIVE:	STANDARDS:	RESOURCE MATERIALS:	ASSESSMENTS/ASSIGNMENTS:
UNIT 1: INTRODUCTION TO EARTH'S SYSTEMS	Explore Earth's systems and recognize the importance of understanding the interactions between Earth's systems and how they affect one another	MS-ESS2-A-2	Savvas	Bell Ringers Weekly/Daily Activities Quizzes Final Unit Test
UNIT 2: WEATHER IN THE ATMOSPHERE	Study water in the atmosphere and the interaction between air masses to show a direct relationship between weather and climate	PS-MS-ESS2-2 PS-MS-ESS2-1 PS-MS-ESS2-6 MS-ESS2-A-2 MS-ESS2-C-4 MS-ESS2-C-5 MS-ESS2-D-1	Savvas	Bell Ringers Weekly/Daily Activities Quizzes Final Unit Test
UNIT 3: MINERALS & ROCKS IN THE GEOSPHERE	Learn the processes by which rocks and minerals form and how they are recycled as a result of energy flow	MS-ESS2-A-2	Savvas	Bell Ringers Weekly/Daily Activities Quizzes Final Unit Test

UNIT 4: HUMAN IMPACTS	Identify the ways that a growing human population uses and affects Earth's air, land, and water. Identify ways to mitigate the impact of humans, using technology or sustainable use policies	PS-MS-ESS3-3 MS-ESS3-A-1 MS-ESS3-C-2 STSE-MS-2.a		
SEMESTER 2 UNITS	OBJECTIVE:	STANDARDS:	RESOURCE MATERIALS:	ASSESSMENTS/ASSIGNMENTS:
UNIT 5: HISTORY OF THE EARTH	History of Earth, its geologic features, and its living organisms - studying the ages of rocks and arranging living things and geologic events into a timeline	PS-MS-ESS1-4 PS-MS-ESS2-2 MS-ESS1-C-1 MS-ESS2-B-1	Savvas	Bell Ringers Weekly/Daily Activities Quizzes Final Unit Test
UNIT 6: ENERGY IN THE ATMOSPHERE AND OCEAN	Recognizing that energy in the form of heat flows from the equator toward the poles and that this energy distribution impacts weather and climate	PS-MS-ESS2-5 PS-MS-ESS2-6 PS-MS-ESS3-5 MS-ESS2-C-4 MS-ESS2-C-5 MS-ESS2-D-3	Savvas	Bell Ringers Weekly/Daily Activities Quizzes Final Unit Test
UNIT 7: CLIMATE	Comparing evidence between historical and recent data to recognize the impact of human activity that could have caused an extreme rise in global temperatures over the past century	MS-ESS3-C-1 MS-ESS3-D-1 STSE-MS-2.a	Savvas	Bell Ringers Weekly/Daily Activities Quizzes Final Unit Test

<p>UNIT 8: EARTH-SUN-MOON SYSTEM</p>	<p>Explore how the sun and moon affect the Earth and how they travel through space</p>	<p>PS-MS-ESS1-1 PS-MS-ESS1-2 MS-ESS1-A-1</p>	<p>Savvas</p>	<p>Bell Ringers Weekly/Daily Activities Quizzes Final Unit Test</p>
<p>UNIT 9: SOLAR SYSTEM & THE UNIVERSE</p>	<p>Use evidence to piece together how celestial bodies formed and continue to form, better understand our own origins, and discover how other planetary systems might support or develop life</p>	<p>MS-ESS1-B-1 MS-ESS1-A-2 MS-ESS1-B-3</p>	<p>Savvas</p>	<p>Bell Ringers Weekly/Daily Activities Quizzes Final Unit Test</p>

9th Grade/ Physical Science

SEMESTER 1 UNITS	OBJECTIVE:	STANDARDS:	RESOURCE MATERIALS:	ASSESSMENTS/ASSIGNMENTS:
UNIT 1: INTRODUCTION TO MATTER	How matter is classified based on its properties, and it's ability to change state or form	PS-MS-PS1-3 PS-MS-PS1-2 MS-PS1-A-2 MS-PS1-B-1	Savvas	Bell Ringers Weekly/Daily Activities Quizzes Final Unit Test
UNIT 2: SOLIDS, LIQUIDS, & GASSES	Examine solids, liquids, and gasses based on their physical properties including their reactions to temperature changes, and their relationship to pressure and volume	PS-MS-ETS1-1 MS-PS1-A-1 MS-PS1-A-3 MS-PS1-A-4 MS-PS1-A-5 MS-PS3-A-2	Savvas	Bell Ringers Weekly/Daily Activities Quizzes Final Unit Test
UNIT 3: ENERGY & THERMAL ENERGY	Learn the nature and role of energy in the world and apply concepts related to kinetic and potential energy, as well as thermal energy and heat transfer	PS-MS-PS1-4 PS-MS-PS2-2 MS-PS2-A-1 MS-PS2-A-2 MS-PS3-A-3 MS-PS3-C-1 6-8-CCC-5.c	Savvas	Bell Ringers Weekly/Daily Activities Quizzes Final Unit Test
UNIT 4: WAVES & ELECTROMAGNETIC RADIATION	Explore and examine different properties of waves and the ways that waves interact with matter and with each other, and how electromagnetic waves are relevant in our lives everyday.	PS-MS-PS4-2 MS-PS4-A-1 MS-PS4-A-2 MS-PS4-B-1 MS-PS4-B-2	Savvas	Bell Ringers Weekly/Daily Activities Quizzes Final Unit Test

SEMESTER 2 UNITS	OBJECTIVE:	STANDARDS:	RESOURCE MATERIALS:	ASSESSMENTS/ASSIGNMENTS:
UNIT 5: ATOMS & THE PERIODIC TABLE	Understanding the structure of atoms and the periodic table to make important connections between chemistry and the real world	MS-PS1-A-1 PS-MS-PS1-1 MS-PS1-A-5	Savvas	Bell Ringers Weekly/Daily Activities Quizzes Final Unit Test
UNIT 6: CHEMICAL REACTIONS	Analyze evidence collected in changes of matter to determine if a physical change or chemical reaction has occurred	PS-MS-PS1-2 MS-PS1-A-2 MS-PS2-B-1	Savvas	Bell Ringers Weekly/Daily Activities Quizzes Final Unit Test
UNIT 7: ELECTRICITY & MAGNETISM	Introduces students to electric forces and magnetic forces and the interactions between them.	PS-MS-PS2-3 MS-PS2-A-1 MS-PS2-B-1 MS-PS2-B-3 MS-PS3-C-1	Savvas	Bell Ringers Weekly/Daily Activities Quizzes Final Unit Test
UNIT 8: FORCES & MOTION	Learn about motion; various forces that cause motion and related concepts such as speed, velocity, acceleration, Newton's three laws of motion, friction and gravitational forces	PS-MS-PS2-1 PS-MS-PS2-2 MS-PS2-A-1 MS-PS2-A-2 MS-PS2-A-3 MS-PS2-B-2	Savvas	Bell Ringers Weekly/Daily Activities Quizzes Final Unit Test

10th Grade/ Biology

SEMESTER 1 UNITS	OBJECTIVE:	STANDARDS:	RESOURCE MATERIALS:	ASSESSMENTS/ASSIGNMENTS:
UNIT 1: THE SCIENCE OF BIOLOGY	Introduction to the science of biology by exploring what science is and what science is not. Students are reminded of scientific methodology, and scientific theory.	HS-SEP-6.b HS-SEP-6.c HS-NoS-1.c HS-NoS-8.c	Savvas	Bell Ringers Weekly/Daily Activities Quizzes Final Unit Test
UNIT 2; THE CHEMISTRY OF LIFE	Examination of macromolecules and distinguishing among atoms, isotopes, and compounds - focus on water's ability to dissolve many substances, including both acids and bases	HS-LS1-6 HS-LSI-C-2 HS-ESS2-6 HS-ETS1-2	Savvas	Bell Ringers Weekly/Daily Activities Quizzes Final Unit Test
UNIT 3: THE BIOSPHERE	Investigate global systems and the way the components of the system are interrelated. Explore the science of ecology, the levels of ecological organization, the way scientists gather ecological data, and the roles of biotic and abiotic factors.	HS-ESS2-4 HS-ESS2-C-1 HS-ESS2-D-3 HS-LS2-A-1	Savvas	Bell Ringers Weekly/Daily Activities Quizzes Final Unit Test

UNIT 4: ECOSYSTEMS	Discover that the existence of life on Earth depends on the interactions among organisms and between organisms and the environment.	HS-LS1-C-1 HS-LS2-B-1 HS-LS2-B-2 HS-LS2-B-3 HS-CCC-5.d		Bell Ringers Weekly/Daily Activities Quizzes Final Unit Test
SEMESTER 2 UNITS	OBJECTIVE:	STANDARDS:	RESOURCE MATERIALS:	ASSESSMENTS/ASSIGNMENTS:
UNIT 5: CELL STRUCTURE & FUNCTION	Investigate prokaryotic and eukaryotic cells. Discover how the invention of the microscope led to the exploration of cells and the development of cell theory.	HS-LS1-A-1 HS-LS1-B-1 HS-LS1-A-2 HS-LS1-C-4 HS-LS1-4	Savvas	Bell Ringers Weekly/Daily Activities Quizzes Final Unit Test
UNIT 6: CELL GROWTH & DIVISION	Compare the advantages and disadvantages of asexual and sexual reproduction for cells.	HS-LS3-B-1 HS-LS3-A-1	Savvas	Bell Ringers Weekly/Daily Activities Quizzes Final Unit Test
UNIT 7: INTRODUCTION TO GENETICS	Explore the work of Gregor Mendel and the experiments he did to understand the principles of inheritance. Students will learn about the role of probability in genetics and how to use probability to predict the outcome of crosses.	HS-LS3-3 HS-LS3-B-1 HS-LS3-B-2	Savvas	Bell Ringers Weekly/Daily Activities Quizzes Final Unit Test

UNIT 8: DNA	Follow the research on DNA, its structure and function, from a historical perspective.	HS-LS1-1 HS-LS1-A-2	Savvas	Bell Ringers Weekly/Daily Activities Quizzes Final Unit Test
UNIT 9: VIRUSES, PROKARYOTES, PROTISTS & FUNGI	Explore a different group of microbes so that students can explore and analyze real world examples of impacts to human health and how understanding disease-causing organisms helps us control them and prevent future epidemics.	HS-LS4-C-2 HS-LS2-B-2	Savvas	Bell Ringers Weekly/Daily Activities Quizzes Final Unit Test
UNIT 10: PLANTS/ PLANT STRUCTURE & FUNCTION	Introduction to the evolution and ecology of plants, and works to deepen students' basic understanding of plant structures and functions	HS-LS1-C-1 HS-LS1-5 HS-LS2-C-1	Savvas	Bell Ringers Weekly/Daily Activities Quizzes Final Unit Test
UNIT 11: ANIMAL SYSTEMS	Examination of how different groups of animals are anatomically and physiologically adapted for different bodily functions	HS-LS1-A-3 HS-LS2-8 HS-LS4-B-2 HS-LS4-C-2	Savvas	Bell Ringers Weekly/Daily Activities Quizzes Final Unit Test

Anatomy & Physiology

SEMESTER 1 UNITS	OBJECTIVE:	STANDARDS:	RESOURCE MATERIALS:	ASSESSMENTS/ASSIGNMENTS:
UNIT 1: THE HUMAN BODY	Introduction to the human body and its processes, and how the body is organized	HS-LS1-1 HS-LS1-2	Pearson+	Bell Ringers Weekly/Daily Activities Quizzes Final Unit Test
UNIT 2: CELLS & TISSUE	Understanding of the cells and tissues that make up the human body, and how cells maintain a balance within the human body	HS-LS1-1 HS-LS1-4 HS-LS1-7	Pearson+	Bell Ringers Weekly/Daily Activities Quizzes Final Unit Test
UNIT 3: INTEGUMENTARY SYSTEM	Understanding how the structures of the skin help to regulate other parts of the human body	HS-LS1-1-2 HS-LS1-3	Pearson+	Bell Ringers Weekly/Daily Activities Quizzes Final Unit Test
UNIT 4: SKELETAL SYSTEM	Analyze and understand how the skeleton is used in movement and support within the human body	HS-LS1-2 HS-LS1-3	Pearson+	Bell Ringers Weekly/Daily Activities Quizzes Final Unit Test

UNIT 5: BODY SYSTEMS	Understanding all other systems that make up the human body to better understand what keeps our body functioning	HS-LS1-1 HS-LS1-3	Pearson+	Bell Ringers Weekly/Daily Activities Quizzes Final Unit Test
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