

PACING GUIDE

The guide on these pages suggests the core time to spend on each lesson of each chapter. Time allotments for chapters exclude any additional activities or projects you may choose to add.

Chapter Title / Lesson Title	Periods (approx.)	Blocks (approx.)
Chapter 1 The Science of Biology		
1 What Is Science?	1	0.5
2 Science in Context	1.5	0.75
3 Patterns of Life	1	0.5
Chapter Lab	0.5	0.25
Performance-Based Assessment	1	0.5
CHAPTER 1 TOTAL	5	2.5
Chapter 2 The Chemistry of Life		
1 The Nature of Matter	1	0.5
2 Properties of Water	1	0.5
3 Carbon Compounds	2	1
4 Chemical Reactions and Enzymes	2	1
Chapter Lab	1	0.5
Performance-Based Assessment	0.5	0.25
CHAPTER 2 TOTAL	7.5	3.75
Chapter 3 The Biosphere		
1 Introduction to Global Systems	1	0.5
2 Climate, Weather, and Life	1	0.5
3 Biomes and Aquatic Ecosystems	2	1
Chapter Lab	1.5	0.75
Performance-Based Assessment	1	0.5
CHAPTER 3 TOTAL	6.5	3.25
Chapter 4 Ecosystems		
1 Energy, Producers, and Consumers	1	0.5
2 Energy Flow in Ecosystems	1	0.5
3 Cycles of Matter	1.5	1
Chapter Lab	1	0.5
Performance-Based Assessment	1	0.5
CHAPTER 4 TOTAL	5.5	3

Chapter Title / Lesson Title	Periods (approx.)	Blocks (approx.)
Chapter 5 Populations		
1 How Populations Grow	1	0.5
2 Limits to Growth	1	0.5
3 Human Population Growth	0.5	0.25
Chapter Lab	0.5	0.25
Performance-Based Assessment	1	0.5
CHAPTER 5 TOTAL	4	2
Chapter 6 Communities and Ecosystem Dynamics		
1 Habitat, Niches, and Species Interactions	1	0.5
2 Succession	1	0.5
3 Biodiversity, Ecosystems, and Resilience	1	0.5
Chapter Lab	0.5	0.25
Performance-Based Assessment	1	0.5
CHAPTER 6 TOTAL	4.5	2.25
Chapter 7 Humans and Global Change		
1 Ecological Footprints	1	0.5
2 Causes and Effects of Global Change	1.5	0.75
3 Measuring and Responding to Change	1	0.5
4 Sustainability	1	0.5
Chapter Lab	1	0.5
Performance-Based Assessment	1	0.5
CHAPTER 7 TOTAL	6.5	3.25
Chapter 8 Cell Structure and Function		
1 Life Is Cellular	2	1
2 Cell Structure	2	1.5
3 Cell Transport	2	1
4 Homeostasis and Cells	0.5	0.25
Chapter Lab	1	0.5
Performance-Based Assessment	1	0.5
CHAPTER 8 TOTAL	8.5	4.75

Chapter Title / Lesson Title	Periods (approx.)	Blocks (approx.)
Chapter 9 Photosynthesis		
1 Energy and Life	1	0.5
2 Photosynthesis: An Overview	2	1
3 The Process of Photosynthesis	1	1
Chapter Lab	1	0.5
Performance-Based Assessment	1	0.5
CHAPTER 9 TOTAL	6	3.5
Chapter 10 Cellular Respiration		
1 Cellular Respiration: An Overview	1	0.5
2 The Process of Cellular Respiration	3	1.5
3 Fermentation	1	0.5
Chapter Lab	1	0.5
Performance-Based Assessment	1	0.5
CHAPTER 10 TOTAL	7	3.5
Chapter 11 Cell Growth and Division		
1 Cell Growth, Division, and Reproduction	1.5	1
2 The Process of Cell Division	2	1
3 Regulating the Cell Cycle	1	0.5
4 Cell Differentiation	2	1
Chapter Lab	1	0.5
Performance-Based Assessment	1	0.5
CHAPTER 11 TOTAL	8.5	4.5
Chapter 12 Introduction to Genetics		
1 The Work of Gregor Mendel	1	0.5
2 Applying Mendel's Principles	1.5	1
3 Other Patterns of Inheritance	1	0.5
4 Meiosis	1.5	1
Chapter Lab	1	0.5
Performance-Based Assessment	1	0.5
CHAPTER 12 TOTAL	7	4

Chapter Title / Lesson Title	Periods (approx.)	Blocks (approx.)
Chapter 13 DNA		
1 Identifying the Substance of Genes	1	0.5
2 The Structure of DNA	2	1
3 DNA Replication	1	0.5
Chapter Lab	1	0.5
Performance-Based Assessment	1	0.5
CHAPTER 13 TOTAL	6	3
Chapter 14 RNA and Protein Synthesis		
1 RNA	1.5	1
2 Ribosomes and Protein Synthesis	1	0.5
3 Gene Regulation and Expression	1	0.5
4 Mutations	1	0.5
Chapter Lab	0.5	0.25
Performance-Based Assessment	1	0.5
CHAPTER 14 TOTAL	6	3.25
Chapter 15 The Human Genome		
1 Human Chromosomes	1	0.5
2 Human Genetic Disorders	1	0.5
3 Studying the Human Genome	1.5	0.75
Chapter Lab	1	0.5
Performance-Based Assessment	1	0.5
CHAPTER 15 TOTAL	5.5	2.75
Chapter 16 Biotechnology		
1 Changing the Living World	1	0.5
2 The Process of Genetic Engineering	2	1
3 Applications of Biotechnology	2	1
4 Ethics and Impacts of Biotechnology	1.5	1
Chapter Lab	1	0.5
Performance-Based Assessment	1	0.5
CHAPTER 16 TOTAL	8.5	4.5

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Chapter Title / Lesson Title	Periods (approx.)	Blocks (approx.)
Chapter 17 Darwin's Theory of Evolution		
1 A Voyage of Discovery	1	0.5
2 Ideas That Influenced Darwin	1.5	0.75
3 Darwin's Theory: Natural Selection	1	0.5
4 Evidence of Evolution	1.5	0.75
Chapter Lab	1	0.5
Performance-Based Assessment	1	0.5
CHAPTER 17 TOTAL	7	3.5
Chapter 18 Evolution of Populations		
1 Genes and Variation	1	0.5
2 Evolution as Genetic Change	1	0.5
3 The Process of Speciation	1	0.5
4 Molecular Evolution	1	0.5
Chapter Lab	0.5	0.25
Performance-Based Assessment	0.5	0.25
CHAPTER 18 TOTAL	5	2.5
Chapter 19 Biodiversity and Classification		
1 Finding Order in Biodiversity	1	0.5
2 Modern Evolutionary Classification	1	0.5
Chapter Lab	0.5	0.25
Performance-Based Assessment	1	0.5
CHAPTER 19 TOTAL	3.5	1.75
Chapter 20 Modern Evolutionary Classification		
1 The Fossil Record	1	0.5
2 Evolutionary Patterns and Processes	1	0.5
3 Earth's Early History	1	0.5
Chapter Lab	0.5	0.25
Performance-Based Assessment	1	0.5
CHAPTER 20 TOTAL	4.5	2.25

Chapter Title / Lesson Title	Periods (approx.)	Blocks (approx.)
Chapter 21 Viruses, Prokaryotes, Protists, and Fungi		
1 Viruses	1	0.5
2 Prokaryotes	1	0.5
3 Protists	1	0.5
4 Fungi	1	0.5
Chapter Lab	1	0.5
Performance-Based Assessment	1	0.5
CHAPTER 21 TOTAL	6	3
Chapter 22 Plants		
1 What Is a Plant?	1	0.5
2 Plant Diversity	2	1
3 Flowers, Seeds, and Fruit	2	1
Chapter Lab	1	0.5
Performance-Based Assessment	1	0.5
CHAPTER 22 TOTAL	7	3.5
Chapter 23 Plant Structure and Function		
1 Roots, Stems, and Leaves	1.5	1
2 Plant Hormones and Tropisms	1	0.5
3 Plants and People	1	0.5
Chapter Lab	2	1
Performance-Based Assessment	1	0.5
CHAPTER 23 TOTAL	6.5	3.5
Chapter 24 Animal Evolution, Diversity, and Behavior		
1 Introduction to Animals	1	0.5
2 Animal Evolution and Diversity	1	0.5
3 Primate Evolution	3	1.5
4 Social Interactions and Group Behavior	1	0.5
Chapter Lab	1	0.5
Performance-Based Assessment	2	1
CHAPTER 24 TOTAL	9	4.5

Chapter Title / Lesson Title	Periods (approx.)	Blocks (approx.)
Chapter 25 Animal Systems I		
1 Feeding and Digestion	1	0.5
2 Respiration	1	0.5
3 Circulation	1	0.5
4 Excretion	2	1
Chapter Lab	1	0.5
Performance-Based Assessment	1	0.5
CHAPTER 25 TOTAL	7	3.5
Chapter 26 Animal Systems II		
1 Response	1.5	0.75
2 Movement and Support	1	0.5
3 Reproduction	2	1
4 Homeostasis	1	0.5
Chapter Lab	1	0.5
Performance-Based Assessment	1	0.5
CHAPTER 26 TOTAL	7.5	3.75

Chapter Title / Lesson Title	Periods (approx.)	Blocks (approx.)
Chapter 27 The Human Body		
1 Organization of the Human Body	1	0.5
2 Human Systems I	2	1
3 Human Systems II	2	1
4 Immunity and Disease	1	0.5
Chapter Lab	1	0.5
Performance-Based Assessment	1	0.5
CHAPTER 27 TOTAL	8	4