

| | |
|---------------------------------------------------------|-----------|
| INTRODUCTION..... | IV |
| CHAPTER 1: WHAT IS AN ORGANISM? | |
| Section 1 – Characteristics of Organisms..... | 1 |
| Section 2 – Basic Needs of Organisms | 2 |
| Demonstration | 3 |
| Lab Activity | 4 |
| CHAPTER 2: THE CELL | |
| Section 1 – Parts of a Cell | 5 |
| Section 2 – Chemicals in a Cell | 6 |
| Section 3 – Movement of Molecules..... | 7 |
| Section 4 – How Cells Make Food..... | 8 |
| Section 5 – The Cell Cycle | 9 |
| Demonstration | 10 |
| Lab Activity | 11 |
| CHAPTER 3: CLASSIFICATION | |
| Section 1 – Taxonomy | 12 |
| Section 2 – How Organisms Are Classified | 13 |
| Demonstration | 14 |
| Lab Activity | 15 |
| CHAPTER 4: HEREDITY & REPRODUCTION | |
| Section 1 – Traits | 16 |
| Section 2 – Dominant & Recessive Traits..... | 17 |
| Section 3 – Reproduction | 18 |
| Demonstration | 19 |
| Lab Activity | 20 |

CHAPTER 5: EVOLUTION

| | |
|-------------------------------------------------------------------|-----------|
| Section 1 – Genes & Mutations | 21 |
| Section 2 – Darwin’s Theory of Natural Selection | 22 |
| Section 3 – Fossils | 23 |
| Demonstration | 24 |
| Lab Activity | 25 |

CHAPTER 6: BACTERIA & VIRUSES

| | |
|---------------------------------------|-----------|
| Section 1 – Bacteria | 26 |
| Section 2 – Viruses | 27 |
| Demonstration | 28 |
| Lab Activity | 29 |

CHAPTER 7: PROTISTS & FUNGI

| | |
|---------------------------------------|-----------|
| Section 1 – Protists | 30 |
| Section 2 – Fungi | 31 |
| Section 3 – Lichen | 32 |
| Demonstration | 33 |
| Lab Activity | 34 |

CHAPTER 8: PLANTS

| | |
|----------------------------------------------------------------|-----------|
| Section 1 – What is a Plant? | 35 |
| Section 2 – Nonvascular & Vascular Plants | 36 |
| Section 3 – Plant Life Cycles | 37 |
| Section 4 – Parts of a Plant | 38 |
| Section 5 – Photosynthesis | 39 |
| Demonstration | 40 |
| Lab Activity | 41 |

CHAPTER 9: ANIMALS

| | |
|---------------------------------------------------------|-----------|
| Section 1 – Characteristics of Animals | 42 |
| Section 2 – Invertebrates | 43 |
| Section 3 – Vertebrates | 44 |
| Section 4 – Animal Behavior | 45 |
| Demonstration | 46 |
| Lab Activity | 47 |

CHAPTER 10: THE HUMAN BODY

| | |
|--------------------------------------------------------------------|-----------|
| Section 1 – From Cells to Systems | 48 |
| Section 2 – Skeletal & Muscular Systems | 49 |
| Section 3 – Circulatory & Respiratory Systems | 50 |
| Section 4 – Digestive & Excretory Systems | 51 |
| Section 5 – Endocrine & Reproductive Systems | 52 |
| Section 6 – The Nervous System | 53 |
| Section 7 – The Integumentary System | 54 |
| Demonstration | 55 |
| Lab Activity | 56 |