

Contents

CHAPTER 1: The Beauty of Trees	5
Why Study Trees?.....	5
Plant Systems & Organs.....	6
CHAPTER 2: The Root System	8
Types of Roots.....	8
Internal Structure of a Root	11
CHAPTER 3: The Stem	13
External Structure of the Stem	13
Internal Structure of the Stem	18
CHAPTER 4: The Leaves	27
External Structure of Leaves	27
Internal Structure of Leaves	37
CHAPTER 5: Photosynthesis	43
Periodic Table of the Elements.....	45
CHAPTER 6: Respiration	51
CHAPTER 7: Flowers	59
Structure	59
Perfect Flowers	61
Pollination and Fertilization	63
CHAPTER 8: Fruits	67
Simple Fruits.....	68
Simple Fleshy Fruits.....	68
Simple Dry Fruits	70
Aggregate Fruits	72
Multiple Fruits.....	73
Seed Dispersal.....	73
CHAPTER 9: Observing Trees	75
Photo Credits	80