

## Table of Contents

	<b>Page</b>
<b>Lesson One: Small Is Not Simple</b> .....	1
A Brief History of Microbiology	
<b>Lesson Two: The Right Chemistry</b> .....	19
How Enzymes Work	
<b>Lesson Three: A Quantum Leap</b> .....	34
Polymerase Chain Reaction (PCR)	
<b>Lesson Four: Armed to Teeth</b> .....	50
Virulence	
<b>Lesson Five: Living Together</b> .....	64
Symbioses	
<b>Wrap-up 1</b> .....	78
<b>Lesson Six: Recognition of Self from Non-self: The First Step of Immunity</b> ...	96
Immunology Vocabulary	
<b>Lesson Seven: World War III for Water Not for Oil</b> .....	109
Water Microbiology	
<b>Lesson Eight: Say Cheese!</b> .....	125
Staining	
<b>Lesson Nine: Welcome to Microbial Zoo</b> .....	136
Foodborne Disease (FBD)	
<b>Lesson Ten: Pizza Culture</b> .....	152
Fast Foods and People	
<b>Wrap-up 2</b> .....	164
<b>References</b> .....	176