

Contents

Unit 1: Opening the Book of Life (Introduction to Biology)	15
Unit 2: On your Way to Academia! (Academic Language and Skills)	43
Unit 3: The Cell: It All Starts Here!	81
Unit 4: DNA: the Blueprint of Life	99
Unit 5: Viruses and Bacteria: The Ubiquitous Microtitans	121
Unit 6: Pathogens Beware! An Army of Antibiotics, Antivirals, and others is Coming for you! (Antibiotics and Antiviral Drugs)	151
Unit 7: Jabs, Shots and Stay Immune! (Vaccines)	175
Unit 8: Darwin's Odyssey: Evolution or Revolution?	195
Unit 9: Heredity: The Key was Hidden in Mendel's Garden!	215
Unit 10: I will see you Ewe later ... (Cloning)	239
Unit 11: ...be Fruitful, and Multiply, and Fill the Earth... (Reproduction)	261
Unit 12: Biotechnology Meets Ethics	281
Unit 13: Ingesting, Digesting and Egesting! (Digestion)	305
Unit 14: Abscission and Molting: Shedding for Survival and Renewal!	327
Unit 15: Bio-repairing – Bio-replacing – Bio-regenerating (Biomaterials)	347
Unit 16: Metabolism, the Engine of Life	365
Unit 17: Routed in the Sun (Photosynthesis)	385
Unit 18: Eco: Exploring our Shared Home (Ecology)	403
Unit 19: Navigating Research Genres: Academic Articles – Lab Reports	429
Unit 20: Dissecting a Research Article	459
Glossary	483
Answer Key	505
Appendix	557
Bibliography	558
Acknowledgments	559