

EDVOTEK® is proudly presenting:

International Baccalaureate (IB) Biology

The IB Biology curriculum offers high school students the opportunity to gain credits for International Baccalaureate (IB) requirements. EDVOTEK's IB-Based experiments are designed to engage students in exploring different aspects of IB Biology, such as Cells, DNA Structure, Genetic Engineering, Evolution, etc.

Topic 1 Cells

IB Guideline: Cells

- Eukaryotic Cell Biology
Cat. #1001 \$179

Topic 2 The Chemistry of Life

IB Guideline: DNA Structure

- What Does DNA Look Like?
Cat. #S-10 \$39

IB Guideline: Photosynthesis

- Photosynthesis
Cat. #AP05 \$69

IB Guideline: Respiration

- Cellular Respiration
Cat. #AP06 \$109

Topic 3 Genetics

IB Guideline: Mitosis and Meiosis

- Cell Division: Mitosis and Meiosis
Cat. #AP07 \$79

IB Guideline: Genetic Engineering

- Bacterial Transformation
Cat. #AP08 \$85

IB Guideline: Chromosomes, genes, alleles, and mutations

- Mitochondrial DNA Analysis Using PCR
Cat. #332 \$179
- Alu Human DNA Typing Using PCR
Cat. #333 \$179
- VNTR Human DNA Typing Using PCR
Cat. #334 \$179
- Quick Plant Genetics Using PCR
Cat. #336 \$179
- Drosophila Genotyping Using PCR
Cat. #337 \$179

Topic 4 Communities

IB Guideline: Populations & Evolution

- Population Genetics & Evolution
Cat. #AP02 \$19

Topic 5 Human Health and Physiology

IB Guideline: The Transport System

- Principles and Practice of Diffusion and Osmosis
Cat. #AP04 \$95

IB Guideline: Defense against infectious diseases

- Detection of a Simulated Infectious Agent
Cat. #166 \$85

Topic 6 Nucleic Acids and Proteins

IB Guideline: DNA Structure

- What Does DNA Look Like?
Cat. #S-10 \$39

IB Guideline: DNA Replication - Transcription - Translation

- Colored DNA Beads
Cat. #1500 \$45

IB Guideline: Proteins

- Fingerprinting of Bacterial Proteins
Cat. #252 \$60
- Diversity of Fish Proteins
Cat. #253 \$69
- Purification and Size Determination of GFP & BFP
Cat. #255 \$85

Topic 6 Nucleic Acids and Proteins, continued

IB Guideline: Enzymes

- Principles of Enzyme Catalysis
Cat. #282 \$95

Topic 7 Cell Respiration and Photosynthesis

IB Guideline: Photosynthesis

- Photosynthesis
Cat. #AP05 \$69

IB Guideline: Respiration

- Cellular Respiration
Cat. #AP06 \$109

Topic 8 Genetics - same as Topic 3

Topic 9 Human Reproduction

IB Guideline: Fertilization and Pregnancy

- Cell Division: Mitosis and Meiosis
Cat. #AP07 \$79

Topic 10 Defense Against Infectious Disease

IB Guideline: Types of Defense

- AIDS Kit I: Simulation of HIV Detection by ELISA
Cat. #271 \$105
- In Search of the "Kissing Disease"
Cat. #274 \$105
- AIDS Kit II: Simulation of HIV Detection by Western Blot
Cat. #275 \$105

Topic 11 Nerves, Muscles and Movement

IB Guideline: Nerves, Muscles and Movement

- Fruit Fly Behavior
Cat. #AP12 \$99
- Effect of Alcohol on *C. elegans*
Cat. #851 \$89
- Chemotaxis: The Science of Attraction
Cat. #852 \$99

Topic 12 Excretion

IB Guideline: Excretion and the Human Kidney

- Principles and Practice of Diffusion and Osmosis
Cat. #AP04 \$95

Topic 13 Plant Science

IB Guideline: Plant Structure

- Isolation and Gel Analysis of DNA from Plants
Cat. #907 \$99

