

INSTRUCTOR RESOURCES

BIOLOGICAL SCIENCE

CANADIAN EDITION

FREEMAN

HARRINGTON

SHARP

QUICK REFERENCE GUIDE



QUICK REFERENCE GUIDE

BIOLOGICAL SCIENCE · CANADIAN EDITION · FREEMAN, HARRINGTON, SHARP

INSTRUCTOR RESOURCES

Organized by chapter on DVDs 1–3 and in the For Instructors area at www.masteringbio.com:

PowerPoint® Lectures

- Active Lecture Questions (for use with classroom response systems)
- BLAST animations
- Label Edit Images (textbook figures and tables, with editable labels and leaders)
- Lecture Presentations (lecture outlines, selected Label Edit Images, and links to BioFlix™ and Web Animations)
- Step Edit Images (selected Label Edit Images layered for step-by-step presentation)

JPEG Images

- Labeled Images (textbook figures and tables)
- Unlabeled Images (textbook figures)

Animations and Videos (see media grid)

- 8 BioFlix™ 3-D animations, plus PowerPoint® Slide Shows and Teaching Tips
- 84 BLAST animations
- 7 Canadian Biology Animations
- 75 Cell Biology Videos
- 29 Discovery Channel™ Videos
- 82 Web Animations based on textbook figures
- 11 GraphIt! activities

Instructor Guide

- *Biological Science* Instructor Guide
- Chapter Quizzes
- *Practicing Biology* Instructor Guide
- Primary Literature Citations (to support figures that contain data and extensive text discussions of particular experiments)

Textbook Answers (online only)

Also on disc and in the For Instructors area at www.masteringbio.com:

Test Bank (separate CD)

Active Learning Workshop (separate DVD)

Video Chapters:

1. Introduction to Active Learning
 2. Bloom's Taxonomy
 3. Benefits for Students
 4. Think-Pair-Share
 5. Demonstrations with Student Participation
 6. Minute Papers
 7. Using Clickers Part 1
 8. Using Clickers Part 2
 9. Concept Mapping
 10. Just in Time Teaching
- BONUS:** Education Research Papers

Additional Instructor Resources are available on www.masteringbio.com:

Case Studies

- The Air We Breathe
- Does Hunting Select for Small-Horned Bighorn Sheep?

- A Fishy Tale
- My Friend's Enemy: How an Invasive Weed Is Changing Native Hardwood Forests
- The Mystery of the Missing Bees
- Uncertainty and Hope: Huntington's Disease—One Family's Experience

New Canadian Biology Animations

- The Signal Hypothesis (Chapter 7)
- Protein Sorting and Vesicle Transport (Chapter 7)
- A Motor Protein That Moves Along Microtubules (Chapter 7)
- STATs Activate Transcription after They Are Phosphorylated (Chapter 18)
- Epinephrine Triggers a Signal Transduction Cascade (Chapter 47)
- The Pine Beetle (Chapter 50)
- The Global Water Cycle (Chapter 54)

More BioFlix Animations

- Membrane Transport (Chapter 6)
- DNA Replication (Chapter 14)
- Mechanisms of Evolution (Chapter 24)
- Water Transport in Plants (Chapter 37)
- How Synapses Work (Chapter 45)
- Carbon Cycle (Chapter 54)
- Population Energy
- Homeostasis
- Gas Exchange

More Discovery Videos

- An additional 20 videos added online

Keep an eye on the Instructor Resources area to see the latest developments.

STUDENT RESOURCES

Organized by chapter in the Study Area at www.masteringbio.com:

Chapter Guide

- Key Concepts
- Section-by-Section Chapter Outlines
- Review Quizzes
- Textbook Answers
- BioFlix™ (see media grid)
- Cell Biology Videos (see media grid)
- Discovery Channel™ Videos (see media grid)
- Web Animations (see media grid)
- GraphIt! (see media grid)
- Textbook Art
- Web Links

Also in the Study Area at www.masteringbio.com:

Audio Glossary, BioSkills, eBook

In the Assignment List at www.masteringbio.com:

Tutorials and Test Bank Questions

UNIT 1: THE MOLECULES OF LIFE (DVD 1)						UNIT 2: CELL STRUCTURE AND FUNCTION (DVD 1)				
1. BIOLOGY AND THE TREE OF LIFE	2. WATER AND CARBON: THE CHEMICAL BASIS OF LIFE	3. PROTEIN STRUCTURE AND FUNCTION		4. NUCLEIC ACIDS AND THE RNA WORLD	5. AN INTRODUCTION TO CARBOHYDRATES	6. LIPIDS, MEMBRANES AND THE FIRST CELLS	7. INSIDE THE CELL		8. CELL-CELL INTERACTIONS	9. CELLULAR RESPIRATION AND FERMENTATION
<p>Case Study on www.masteringbio.com</p> <ul style="list-style-type: none">Does Hunting Select for Small-Horned Bighorn Sheep? <p>Discovery Videos</p> <ul style="list-style-type: none">CellsCharles Darwin <p>Web Animations</p> <ul style="list-style-type: none">Artificial SelectionIntroduction to Experimental Design <p>GraphIt!</p> <ul style="list-style-type: none">An Introduction to Graphing	<p>BLAST Animations</p> <ul style="list-style-type: none">Hydrogen Bonds in WaterCovalent Bonds <p>Discovery Video</p> <ul style="list-style-type: none">Early Life <p>Web Animation</p> <ul style="list-style-type: none">The Properties of Water	<p>BLAST Animations</p> <ul style="list-style-type: none">Protein Primary StructureProtein Secondary StructureAlpha HelixProtein Tertiary and Quaternary StructureBuilding ProteinsUnfolding and Refolding a ProteinStructure of DNA Double HelixHydrogen Bonds in DNARoles of RNAStructure of ATPATP/ADP CycleEnzyme Regulation: AllostericEnzyme Regulation: Chemical ModificationEnzyme Regulation: Competitive InhibitionHow Enzymes Work: Activation EnergyHow Enzymes Work: Types and Specificity	<p>Cell Biology Videos</p> <ul style="list-style-type: none">An Idealized Alpha HelixAn Idealized Alpha Helix: No SidechainsAn Idealized Beta Pleated Sheet CartoonAn Idealized Beta Pleated SheetClosure of Hexokinase via Induced Fit <p>Web Animations</p> <ul style="list-style-type: none">Condensation and Hydrolysis ReactionsActivation Energy and Enzymes	<p>BLAST Animations</p> <ul style="list-style-type: none">Structure of DNA Double HelixDNA and RNA ComparedGel ElectrophoresisHydrogen Bonds in DNARoles of RNA <p>Cell Biology Videos</p> <ul style="list-style-type: none">Stick Model of DNASurface Model of DNA <p>Web Animation</p> <ul style="list-style-type: none">Nucleic Acid Structure	<p>Discovery Video</p> <ul style="list-style-type: none">Antibiotics <p>Web Animation</p> <ul style="list-style-type: none">Structure and Function	<p>BLAST Animations</p> <ul style="list-style-type: none">Active Transport: Sodium-Potassium PumpPlant Cell WallDiffusionPassive Diffusion Across a MembraneProkaryotic Cell Size <p>Case Study on www.masteringbio.com</p> <ul style="list-style-type: none">Know Your Enemy <p>Cell Biology Videos</p> <ul style="list-style-type: none">Stick Model of CholesterolSpace-filling Model of CholesterolNa⁺/K⁺ ATPase CyclePlasmolysis of Plant CellsWater Movement Through an AquaporinStructure of the Cell Membrane <p>Web Animations</p> <ul style="list-style-type: none">Diffusion and OsmosisMembrane Transport Proteins	<p>BioFlix</p> <ul style="list-style-type: none">Tour of an Animal CellTour of a Plant Cell <p>BLAST Animations</p> <ul style="list-style-type: none">Animal Cell OverviewEndocytosis and ExocytosisMitochondrionCell OverviewPlasmidVacuoleVesicle Transport <p>Canadian Biology Animations</p> <ul style="list-style-type: none">The Signal HypothesisProtein Sorting and Vesicle TransportA Motor Protein That Moves Along Microtubules <p>Cell Biology Videos</p> <ul style="list-style-type: none">Actin Network in Crawling CellsActin Visualization in DendritesCytoplasmic StreamingCytoskeleton Protein DynamicsER and Mitochondria in Leaf CellsER to Golgi Traffic	<ul style="list-style-type: none">Motion of Isolated FlagellumFlagellum Movement in Swimming SpermGolgi Complex in 3DInterphase Microtubule DynamicsMicrotubule DynamicsMicrotubule Sliding in Flagellum MovementMitochondrion in 3DMovement of Organelles in vitroMovement of Organelles in vivoPhagocytosis in ActionSecretion from the GolgiStaining of Endoplasmic ReticulumThe Cytoskeleton in a Neuron Growth ConeTransport Along MicrotubulesChloroplast MovementCiliary Motion <p>Discovery Video</p> <ul style="list-style-type: none">Cells <p>Web Animations</p> <ul style="list-style-type: none">Transport into the NucleusA Pulse-Chase Experiment	<p>BLAST Animations</p> <ul style="list-style-type: none">Signaling Across MembranesSignaling: DirectSignaling via Steroid Hormones <p>Cell Biology Videos</p> <ul style="list-style-type: none">E-cadherin ExpressionFibronectin FibrilsStaining of the Extracellular MatrixCartoon Model of a Collagen Triple Helix <p>Discovery Video</p> <ul style="list-style-type: none">Cells <p>Web Animation</p> <ul style="list-style-type: none">Cell-Cell Communication	<p>BioFlix</p> <ul style="list-style-type: none">Cellular Respiration <p>BLAST Animation</p> <ul style="list-style-type: none">Harvesting Energy: Krebs Cycle <p>Cell Biology Videos</p> <ul style="list-style-type: none">Space-filling Model of ATPStick Model of ATPATP Synthase 3D Structure: Top ViewATP Synthase 3D Structure: Side View <p>Web Animations</p> <ul style="list-style-type: none">Glucose MetabolismRedox Reactions
UNIT 2 (continued)		UNIT 3: GENE STRUCTURE AND EXPRESSION (DVD 1)								
10. PHOTOSYNTHESIS	11. THE CELL CYCLE	12. MEIOSIS	13. MENDEL AND THE GENE	14. DNA AND THE GENE: SYNTHESIS AND REPAIR	15. HOW GENES WORK	16. TRANSCRIPTION AND TRANSLATION	17. CONTROL OF GENE EXPRESSION IN BACTERIA	18. CONTROL OF GENE EXPRESSION IN EUKARYOTES	19. ANALYZING AND ENGINEERING GENES	20. GENOMICS
<p>BioFlix</p> <ul style="list-style-type: none">Photosynthesis <p>Cell Biology Video</p> <ul style="list-style-type: none">Space-filling Model of Chlorophyll a <p>Discovery Video</p> <ul style="list-style-type: none">Space Plants <p>Web Animations</p> <ul style="list-style-type: none">ChemiosmosisPhotosynthesisStrategies for Carbon Fixation	<p>BioFlix</p> <ul style="list-style-type: none">Mitosis <p>BLAST Animation</p> <ul style="list-style-type: none">Plant Cytokinesis <p>Case Study on www.masteringbio.com</p> <ul style="list-style-type: none">Know Your Enemy <p>Cell Biology Videos</p> <ul style="list-style-type: none">Microtubules in Cell DivisionSpindle Formation during MitosisMitosisNuclear Envelope FormationMyosin and CytokinesisMicrotubules in Anaphase <p>Discovery Video</p> <ul style="list-style-type: none">Fighting Cancer <p>Web Animations</p> <ul style="list-style-type: none">The Phases of MitosisThe Cell Cycle	<p>BioFlix</p> <ul style="list-style-type: none">Meiosis <p>BLAST Animations</p> <ul style="list-style-type: none">Genetic Variation: Fusion of GametesGenetic Variation: Independent Assortment <p>Cell Biology Videos</p> <ul style="list-style-type: none">Meiosis I in Sperm FormationNondisjunction in Mitosis <p>Web Animations</p> <ul style="list-style-type: none">MeiosisMistakes in Meiosis	<p>BLAST Animations</p> <ul style="list-style-type: none">Single-Trait CrossesTwo-Trait Crosses <p>Case Study on www.masteringbio.com</p> <ul style="list-style-type: none">Uncertainty and Hope: Huntington's Disease—One Family's Experience <p>Web Animations</p> <ul style="list-style-type: none">Mendel's ExperimentsThe Principle of Independent Assortment	<p>Web Animation</p> <ul style="list-style-type: none">DNA Synthesis	<p>Web Animations</p> <ul style="list-style-type: none">The One-Gene, One-Enzyme HypothesisThe Triplet Nature of the Genetic Code	<p>BioFlix</p> <ul style="list-style-type: none">Protein Synthesis <p>BLAST Animations</p> <ul style="list-style-type: none">TranscriptionTranslation <p>Case Study on www.masteringbio.com</p> <ul style="list-style-type: none">The Air We Breathe <p>Cell Biology Video</p> <ul style="list-style-type: none">A Stick and Ribbon Rendering of a tRNA <p>Discovery Video</p> <ul style="list-style-type: none">Antibiotics <p>Web Animations</p> <ul style="list-style-type: none">TranscriptionTranslation	<p>Cell Biology Video</p> <ul style="list-style-type: none">Cartoon Rendering of the lac Repressor from <i>E. coli</i> <p>Web Animation</p> <ul style="list-style-type: none">The lac Operon	<p>Canadian Biology Animations</p> <ul style="list-style-type: none">STATs Activate Transcription after They Are Phosphorylated <p>Cell Biology Videos</p> <ul style="list-style-type: none">Cartoon and Stick Model of a Nucleosomal ParticleCartoon Model of the GAL4 Transcription Factor from the Yeast <i>S. cerevisiae</i> <p>Web Animation</p> <ul style="list-style-type: none">Transcription Initiation in Eukaryotes	<p>BLAST Animation</p> <ul style="list-style-type: none">Genetic Recombination in Bacteria <p>Case Study on www.masteringbio.com</p> <ul style="list-style-type: none">Uncertainty and Hope: Huntington's Disease—One Family's ExperienceThe Air We Breathe <p>Cell Biology Videos</p> <ul style="list-style-type: none">Pronuclear InjectionGFP-expressing Transgenic Mice <p>Discovery Video</p> <ul style="list-style-type: none">Transgenics <p>Web Animations</p> <ul style="list-style-type: none">Producing Human Growth HormoneThe Polymerase Chain Reaction	<p>BLAST Animation</p> <ul style="list-style-type: none">DNA Fingerprinting <p>Case Study on www.masteringbio.com</p> <ul style="list-style-type: none">Uncertainty and Hope: Huntington's Disease—One Family's ExperienceThe Air We Breathe <p>Discovery Video</p> <ul style="list-style-type: none">DNA Forensics <p>Web Animation</p> <ul style="list-style-type: none">Human Genome Sequencing Strategies

UNIT 4: DEVELOPMENTAL BIOLOGY (DVD 2)			UNIT 5: EVOLUTIONARY PROCESSES AND PATTERNS (DVD 2)			
21. PRINCIPLES OF DEVELOPMENT	22. AN INTRODUCTION TO ANIMAL DEVELOPMENT	23. AN INTRODUCTION TO PLANT DEVELOPMENT	24. EVOLUTION BY NATURAL SELECTION	25. EVOLUTIONARY PROCESSES	26. SPECIATION	27. PHYLOGENIES AND THE HISTORY OF LIFE
BLAST Animation <ul style="list-style-type: none">Stem Cells Cell Biology Video <ul style="list-style-type: none">LamellipodiaPhosphate-Induced ApoptosisApoptosis in <i>C. elegans</i> Embryos Discovery Video <ul style="list-style-type: none">Cloning Web Animation <ul style="list-style-type: none">Early Pattern Formation in <i>Drosophila</i>	Cell Biology Videos <ul style="list-style-type: none">Cortical Granule Fusion Following Egg FertilizationCalcium Wave Propagation in Fish EggsCalcium Release Following Egg FertilizationMotion of Isolated FlagellumFlagellum Movement in Swimming SpermCleavage of a Fertilized Egg Web Animation <ul style="list-style-type: none">Early Stages of Animal Development	(No media)	BLAST Animations <ul style="list-style-type: none">Evidence for Evolution: Homologous LimbsNatural Selection Case Study on www.masteringbio.com <ul style="list-style-type: none">Does Hunting Select for Small-Horned Bighorn Sheep? Discovery Videos <ul style="list-style-type: none">Charles DarwinMass Extinctions Web Animation <ul style="list-style-type: none">Natural Selection for Antibiotic Resistance	Web Animations <ul style="list-style-type: none">The Hardy-Weinberg PrincipleThree Modes of Natural Selection	Case Study on www.masteringbio.com <ul style="list-style-type: none">A Fishy Tale Web Animations <ul style="list-style-type: none">Allopatric SpeciationSpeciation Changes in Ploidy	Discovery Video <ul style="list-style-type: none">Mass Extinctions Web Animation <ul style="list-style-type: none">Adaptive Radiation

UNIT 6: THE DIVERSIFICATION OF LIFE (DVD 2)									UNIT 7: HOW PLANTS WORK (DVD 3)	
28. BACTERIA AND ARCHAEA	29. PROTISTS	30. GREEN PLANTS	31. FUNGI	32. AN INTRODUCTION TO ANIMALS	33. PROTOSTOME ANIMALS	34. DEUTEROSTOME ANIMALS	35. VIRUSES	36. PLANT FORM AND FUNCTION	37. WATER AND SUGAR TRANSPORT IN PLANTS	38. PLANT NUTRITION
BLAST Animation <ul style="list-style-type: none">Evidence for Evolution: Antibiotic Resistance in Bacteria Cell Biology Video <ul style="list-style-type: none">Demonstration of Chemotaxis Discovery Videos <ul style="list-style-type: none">Tasty BacteriaEarly LifeBacteriaFungiAntibiotics Web Animation <ul style="list-style-type: none">The Tree of Life	Web Animation <ul style="list-style-type: none">Alternation of Generations in a Protist	BLAST Animation <ul style="list-style-type: none">Alternation of Generations Discovery Videos <ul style="list-style-type: none">Space PlantsTreesColored CottonPlant Pollination Web Animation <ul style="list-style-type: none">Plant Evolution and the Phylogenetic Tree	Case Study on www.masteringbio.com <ul style="list-style-type: none">My Friend's Enemy: How an Invasive Weed Is Changing Native Hardwood Forests Discovery Videos <ul style="list-style-type: none">FungiLeafcutter Ants Web Animation <ul style="list-style-type: none">The Life Cycle of a Mushroom	Web Animation <ul style="list-style-type: none">The Architecture of Animals	Discovery Video <ul style="list-style-type: none">Invertebrates Web Animation <ul style="list-style-type: none">Protostome Diversity	Case Study on www.masteringbio.com <ul style="list-style-type: none">An Ocean without Sharks Web Animation <ul style="list-style-type: none">Deuterostome Diversity	BLAST Animations <ul style="list-style-type: none">AIDS OnsetAIDS Treatment StrategiesStructure of HIV Discovery Videos <ul style="list-style-type: none">Emerging DiseasesVaccines Web Animation <ul style="list-style-type: none">The HIV Replicative Cycle	Discovery Video <ul style="list-style-type: none">Trees Web Animation <ul style="list-style-type: none">Primary and Secondary Growth	Cell Biology Video <ul style="list-style-type: none">Plasmolysis of Plant Cells Web Animation <ul style="list-style-type: none">Solute Transport in Plants	Case Study on www.masteringbio.com <ul style="list-style-type: none">My Friend's Enemy: How an Invasive Weed Is Changing Native Hardwood Forests Web Animation <ul style="list-style-type: none">Soil Formation and Nutrient Uptake GraphIt! <ul style="list-style-type: none">Global Soil Degradation

UNIT 7 (continued)		UNIT 8: HOW ANIMALS WORK (DVD 3)								
39. PLANT SENSORY SYSTEMS, SIGNALS, AND RESPONSES	40. PLANT REPRODUCTION	41. ANIMAL FORM AND FUNCTION	42. WATER AND ELECTROLYTE BALANCE IN ANIMALS	43. ANIMAL NUTRITION	44. GAS EXCHANGE AND CIRCULATION	45. ELECTRICAL SIGNALS IN ANIMALS	46. ANIMAL SENSORY SYSTEMS AND MOVEMENT	47. CHEMICAL SIGNALS IN ANIMALS	48. ANIMAL REPRODUCTION	49. THE IMMUNE SYSTEM IN ANIMALS
Web Animations <ul style="list-style-type: none">Plant DefensesPlant HormonesSensing Light	BLAST Animations <ul style="list-style-type: none">Flowering StructureFlowering Plant Life CycleNon-Flowering Plant Life CyclePollination and Fertilization Case Study on www.masteringbio.com <ul style="list-style-type: none">The Mystery of the Missing Bees Discovery Videos <ul style="list-style-type: none">Colored CottonPlant Pollination Web Animations <ul style="list-style-type: none">Reproduction in Flowering PlantsFruit Structure and Development	BLAST Animations <ul style="list-style-type: none">Eukaryotic Cell Shape and Surface AreaFeedback LoopsPositive Feedback: LaborNegative Feedback: Body TemperatureSurface Area to Volume Calculator Discovery Video <ul style="list-style-type: none">An Introduction to the Human Body Web Animations <ul style="list-style-type: none">Surface Area/Volume RelationshipHomeostasis	BLAST Animations <ul style="list-style-type: none">Kidney AnatomyHow the Kidney Works Web Animation <ul style="list-style-type: none">The Mammalian Kidney	Discovery Video <ul style="list-style-type: none">Nutrition Web Animations <ul style="list-style-type: none">The Digestion and Absorption of FoodUnderstanding Diabetes Mellitus	BLAST Animations <ul style="list-style-type: none">Anatomy of the HeartThe Cardiac Cycle OverviewElectrical Coordination of the Cardiac Cycle Discovery Video <ul style="list-style-type: none">Blood Web Animation <ul style="list-style-type: none">Gas Exchange in the Lungs and TissuesThe Heart	BioFlix <ul style="list-style-type: none">How Neurons Work BLAST Animations <ul style="list-style-type: none">Action PotentialsSignaling Amplification in NeuronsSignaling: NeuralSignal Transmission at Synapses Cell Biology Video <ul style="list-style-type: none">Dendrites of a Neuron Discovery Videos <ul style="list-style-type: none">Novelty GeneTeen Brains Web Animations <ul style="list-style-type: none">Membrane PotentialsAction Potentials	BioFlix <ul style="list-style-type: none">Muscle Contraction BLAST Animations <ul style="list-style-type: none">Muscle Anatomy Cell Biology Videos <ul style="list-style-type: none">Myosin-Actin InteractionCardiac Muscle Contraction Discovery Video <ul style="list-style-type: none">Muscles and Bones Web Animations <ul style="list-style-type: none">The Vertebrate EyeMuscle Contraction	BLAST Animations <ul style="list-style-type: none">Signaling: EndocrineSignaling: Paracrine Canadian Biology Animations <ul style="list-style-type: none">Epinephrine Triggers a Signal Transduction Cascade Cell Biology Video <ul style="list-style-type: none">A Cartoon Model of the DNA Binding Motif of a Zinc Finger Transcription Factor Binding to DNA Discovery Video <ul style="list-style-type: none">Endocrine System Web Animations <ul style="list-style-type: none">Endocrine System AnatomyHormone Actions on Target Cells	Discovery Video <ul style="list-style-type: none">Cloning Web Animations <ul style="list-style-type: none">Human GametogenesisHuman Reproduction	BLAST Animations <ul style="list-style-type: none">Adaptive ImmunityInnate Immunity Cell Biology Videos <ul style="list-style-type: none">Chemotaxis of a NeutrophilLeukocyte Adhesion and Rolling Discovery Videos <ul style="list-style-type: none">Fighting CancerEmerging DiseasesVaccines Web Animations <ul style="list-style-type: none">The Inflammatory ResponseThe Acquired Immune Response

UNIT 9: ECOLOGY (DVD 3)					
50. AN INTRODUCTION TO ECOLOGY	51. BEHAVIOR	52. POPULATION ECOLOGY	53. COMMUNITY ECOLOGY	54. ECOSYSTEMS	55. BIODIVERSITY AND CONSERVATION BIOLOGY
Canadian Biology Animations <ul style="list-style-type: none">The Pine Beetle Discovery Video <ul style="list-style-type: none">Rain Forests Web Animation <ul style="list-style-type: none">Tropical Atmospheric Circulation	Discovery Videos <ul style="list-style-type: none">Novelty GeneTeen Brains Web Animation <ul style="list-style-type: none">Homing Behavior in Digger Wasps	BLAST Animations <ul style="list-style-type: none">Population Dynamics Web Animations <ul style="list-style-type: none">Modeling Population GrowthHuman Population Growth and Regulation GraphIt! <ul style="list-style-type: none">Age Pyramids and Population Growth	Case Study on www.masteringbio.com <ul style="list-style-type: none">My Friend's Enemy: How an Invasive Weed Is Changing Native Hardwood Forests Discovery Videos <ul style="list-style-type: none">Leafcutter AntsIntroduced Species Web Animations <ul style="list-style-type: none">Life Cycle of a Malaria ParasitePrimary Succession GraphIt! <ul style="list-style-type: none">Species Area Effect and Island Biogeography	BLAST Animations <ul style="list-style-type: none">Carbon CycleEnergy FlowThe Greenhouse EffectNitrogen Cycle Canadian Biology Animations <ul style="list-style-type: none">The Global Water Cycle Discovery Video <ul style="list-style-type: none">Trees Web Animation <ul style="list-style-type: none">The Global Carbon Cycle GraphIt! <ul style="list-style-type: none">Animal Food Production Efficiency and Food PolicyAtmospheric CO₂ and Temperature ChangesMunicipal Solid Waste Trends in the USGlobal Freshwater ResourcesProspects for Renewable Energy	Web Animation <ul style="list-style-type: none">Habitat Fragmentation GraphIt! <ul style="list-style-type: none">Forestation ChangeGlobal Fisheries and Overfishing