

# Biology End-of-Year Capstone Review

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**Review your notes.** Confirm you have a reasonable-level of understanding for each topic listed here. If the final exam is open notes, confirm you have evidence of your participation with each topic listed. For any topics where you either have an inadequate grasp of the concepts – or for which you do not have personal copies of notes and topic artifacts – revisit those topics and make improvements.

<input type="checkbox"/> Biology 10 Student Expectations	<input type="checkbox"/> Biology 31 Darwin, Evolution and Fossils
<input type="checkbox"/> Biology 11 What is Biology?	<input type="checkbox"/> Biology 32 Animal Characteristics
<input type="checkbox"/> Biology 12 Scientific Method and Safety	<input type="checkbox"/> Biology 33 Animal Behaviors
<input type="checkbox"/> Biology 13 Connections Across Content	<input type="checkbox"/> Biology 34 Science Observation and Measure
<input type="checkbox"/> Biology 14 Cell Organization	<input type="checkbox"/> Biology 35 Science Models
<input type="checkbox"/> Biology 15 Plant Cells	<input type="checkbox"/> Biology 36 Interpretation and Communication
<input type="checkbox"/> Biology 16 Prokaryotic and Eukaryotic Cells	<input type="checkbox"/> Biology 37 Dissection Preparation
<input type="checkbox"/> Biology 17 Mitosis and Cytokinesis	<input type="checkbox"/> Biology 38 Dissection in Lab
<input type="checkbox"/> Biology 18 DNA and Heredity	<input type="checkbox"/> Biology 39 Dissection Analysis
<input type="checkbox"/> Biology 19 Genes Genetics and Chromosomes	<input type="checkbox"/> Biology 41 Fields in the Life Sciences
<input type="checkbox"/> Biology 21 Organization of Living Things	<input type="checkbox"/> Biology 42 Physiology
<input type="checkbox"/> Biology 22 Animal Classification	<input type="checkbox"/> Biology 43 Ecology
<input type="checkbox"/> Biology 23 Interdependence of Living Things	<input type="checkbox"/> Biology 44 Deep Dive – the Cell
<input type="checkbox"/> Biology 24 Theory of Evolution	<input type="checkbox"/> Biology 45 Deep Dive – Genetics
<input type="checkbox"/> Biology 25 Protist Evolution	<input type="checkbox"/> Biology 46 Deep Dive – Biological Diversity
<input type="checkbox"/> Biology 26 Adaptations and Natural Selection	<input type="checkbox"/> Biology 47 Scientific Inquiry
<input type="checkbox"/> Biology 27 Populations and Genetics	<input type="checkbox"/> Biology 48 Organisms and Living Systems
<input type="checkbox"/> Biology 28 Use of a Light Microscope	

Below, find a list of Techniques and Activities which may have been covered during this curriculum (many of these may not have been explicitly covered as a stand-alone topic). For those listed that were covered in class as a topic, confirm you have a sufficient grasp of the major concepts and that you have a solid set of accompanying notes.

**Use of Diagrams/Models to Convey Science Information**

- Activity 20 Venn Diagrams & Relationship
- Activity 21 Hierarchy and Pyramid
- Activity 22 Process and Cycle
- Activity 23 Matrix and List

**Techniques for the General Classroom and Science**

- Technique 10 How to Read Complex Text
- Technique 11 How to Summarize Information
- Technique 12 The Scientific Method
- Technique 13 21st Century (4Cs)
- Technique 14 Critical Thinking
- Technique 15 Creative Concepts
- Technique 16 Collaboration
- Technique 17 Communication
- Technique 18 Lab Safety
- Technique 19 Lab Procedures
- Technique 20 Lab Measure and Convert
- Technique 21 Devise Experiments
- Technique 22 Data Gathering
- Technique 23 Graphing and Charting Data
- Technique 24 Interpret Results
- Technique 25 Use and Care of Equipment