

Biology 11 FINAL EXAM (Part A)

In Biology 11 we took a journey from understanding cellular properties and function, through the connections between all forms of life, and to a deeper understanding of how our own bodies work. The entire course is unified by the underlying theme of evolution. The final exam poses questions that require you to draw from **all three** of the units in order to properly support your answer to each question. The units we studied are:

Unit 1 - Cells and Cell Processes

Unit 2 – Evolution and Biodiversity

Unit 3 – Major Systems and Homeostasis

Part A of the exam is to organize the ideas we have discussed in the course as part of your preparation for the exam. You have to summarize the main ideas and try to recognize the connections between them. Ideally, you will make connections both **within** units and **between** units. For example, you might describe mammals as having a four chambered heart and point out how that structure differs from other vertebrates. That is making a connection *within* the biodiversity unit. If you also mention that it is an efficient way to separate oxygenated and deoxygenated blood then you have made a connection *between* the biodiversity and form and function units. Better yet, you might mention the appearance of the four-chambered heart as being a trend in the evolution of vertebrates and, thereby, connect it to the evolution unit.

The broad topic areas you should be considering during your preparation are **water, surface area and exchange, homeostasis, and nutrition**. Part A will be evaluated according to the following rubric:

0	1	2	3
Did not do it.	Only some ideas are included. Ideas are copied from the notes.	Most ideas are included. Student shows some connections within OR between units.	Most ideas are included. Student shows connections within AND between units for some ideas.