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| **Question Type** | **What To Do** | **Example Question** |
| **Predict and Justify/Predict and** | **State what you think will happen in a certain circumstance and prove this reasoning using examples.** | ***Predict the effects of the mutation on the structure and function of the resulting protein in species IV. Justify your prediction.* (**[**2014 AP Bio exam**](http://media.collegeboard.com/digitalServices/pdf/ap/ap14_frq_Biology.pdf)**)** |
| **Propose** | **Come up with an improvement, solution, or idea that answers the prompt. Be specific.** | ***Propose an evolutionary mechanism that explains the change in average number of spots between 6 and 20 months in the presence of the predator.* (**[**2014 AP Bio exam**](http://media.collegeboard.com/digitalServices/pdf/ap/ap14_frq_Biology.pdf)**)** |
| **Identify** | **Name one or more items, list the parts, and give an example.** | ***Identify TWO environmental factors that can change the rate of an enzyme-mediated reaction.* (**[**2010 AP Bio exam**](http://apcentral.collegeboard.com/apc/public/repository/ap10_biology_scoring_guidelines.pdf)**)** |
| **Explain** | **Make something understandable. Give reasons and examples, instead of just descriptions.** | ***Explain how paper chromatography can be used to separate pigments based on their chemical and physical properties.* (**[**2010 AP Bio exam**](http://apcentral.collegeboard.com/apc/public/repository/ap10_biology_form_b_q1.pdf)**)** |
| **Compare/Contrast** | **Point out what is similar and what is different between two or more concepts. Do not explain or describe the objects separately.** | ***Compare and contrast reproduction in nonvascular plants with that in flowering plants.* (**[**2009 AP Bio Exam**](http://apcentral.collegeboard.com/apc/public/repository/ap09_biology_form_b_q2.pdf)**)** |
| **Discuss** | **Think of this question as an “all of the above” type question. You need to consider different theories, points of view, and ideas, implementing the identify, describe, and explain strategies.** | ***Discuss THREE ways that an invasive species can affect its new ecosystem.* (**[**2011 AP Bio Exam**](http://apcentral.collegeboard.com/apc/public/repository/ap11_biology_form_b_q3.pdf)**)** |
| **Describe** | **Provide the characteristics/properties of a term or concept.** | ***Describe THREE different factors that contribute to the success of invasive species in an ecosystem.* (**[**2011 AP Bio Exam**](http://apcentral.collegeboard.com/apc/public/repository/ap11_biology_form_b_q3.pdf)**)** |