

**AP Biology**  
**Chapter 11 Guided Reading Assignment**

Name \_\_\_\_\_

This chapter is often considered difficult as you have not covered it in your introductory biology course. Plan on reading this chapter at least twice and go slowly. I would suggest that you read the key concepts in bold first and then for each concept, look at the headings, then the figures and then read.

1. What is a signal transduction pathway?
2. How do yeast cells communicate while mating?
3. How do intercellular connections function in cell to cell communication?
4. Explain the two types of local signaling:
  - a. Paracrine signaling
  - b. Synaptic signaling
5. How are long distance signals sent?
6. Explain Sutherland's investigations with epinephrine and the inferences that were derived from this work.
7. Define the three stages of cell communication:
  - a. Reception
  - b. Transduction
  - c. Response

# Ap Biology Chapter 11 Guided Reading Assignment Answers

**Yicheng Fang**



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web the reaction in our example above would be written as  ${}^6_3\text{Li} + {}^4_2\text{He} \rightarrow {}^4_2\text{He} + {}^4_2\text{He} + 2\text{e}^- + 2\text{p} + 2\text{n} + \text{energy}$  balancing a radioactive decay equation in balancing a nuclear equation it is important to remember that the sum of all the mass numbers and atomic numbers given on the upper left and lower left side of the element symbol respectively must be equal for both sides of the

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