Cell Communication Reading Guide (Life 9th Edition)

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| **TOPIC** | | **PAGES** | **NOTES** |
| 7.1 | What are signals, and how do cells respond to them? | 129-132 (4 pages) | **Chapter 7 is the primary chapter for this unit.** |
| 7.2 | How do signal receptors initiate a cellular response? | 132-136 (4) |  |
| 7.3 | How is the response to a signal transduced through the cell? | 136-142 (6) |  |
| 7.4 | How do cells change in response to signals? | 142-144 (3) |  |
| 7.5 | How do cells communicate directly? | 144-145 (2) |  |
| 26.2 | Prokaryotes generally form complex communities | *539-540 (2)* | In section 26.2 |
| 26.2 | Prokaryotes can communicate | *542-543 (1)* | In section 26.2 |
| 41.1 | What are hormones and how do they work? | 852-857 (6) | **Read chapter 41 quickly just to familiarize yourself with hormonal signaling.** |
| 41.2 | How do the nervous and endocrine systems interact? | 858-861 (4) |  |
| 41.3 | What are the major mammalian endocrine glands and hormones? | 861-868 (7) | Focus on the regulation of blood calcium and blood glucose. |
| 37.1 | How does plant development proceed? | 772-776 (5) | **Read chapter 37 quickly just to familiarize yourself with some plant signaling pathways.** |
| 37.5 | How do photoreceptors participate in plant growth regulation? | 788-791 (4) |  |

Plant Function Reading Guide (Life 9th Edition)

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| **TOPIC** | | **PAGES** | **NOTES** |
| 35.1 | How do plants take up water and solutes? | 740-745 (5 pages) | You already read this section in Cell Function Unit, but it is worth reading again for this unit. |
| 35.2 | How are water and minerals transported in the xylem? | 745-747 (3) |  |
| 35.3 | How do stomata control the loss of water and the uptake of CO2? | 748-749 (2) |  |
| 35.4 | How are substances translocated in the phloem? | 750-753 (3) |  |
| 10.1 | What is photosynthesis? | 190-192 (3) |  |
| 10.2 | How does photosynthesis convert light energy into chemical energy? | 192-199 (7) |  |
| 10.3 | How is chemical energy used to synthesize carbohydrates? | 199-202 (4) |  |

Test target date for this material = Thursday 1/9/14