Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Unit 5 Map - Cellular Signaling**

AP Biology

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| **Topic** | **Learning Target** | **Checkpoint Score** (%) | **Test Score** (%) |
| 1. The Basics of Cell Signaling  | A. I can describe what happens in each of the three main steps of cell signaling—reception, transduction, and response—and provide examples of each. |  |  |
| B. I can compare/contrast cell signaling between cells that are connected, cells that are separated by a small distance, and cells that are separated by a large distance.  |
| C. I can compare the purpose of cell signaling in unicellular vs. multicellular organisms and provide examples of each. |
| D. I can predict the effects of changes in cell signaling pathways. |
| 2. Fast Signals across Small Distances – The Nervous System | E. I can identify the main parts of the human nervous system. |  |  |
| F. I can outline the steps involved in a reflex arc.  |
| G. I can identify the parts of a neuron and their functions.  |
| H. I can describe the movement of a signal (action potential) down the length of a single neuron.  |
| I. I can describe the movement of a signal from one neuron to another.  |
| 3. Slow Signals across Long Distances – The Endocrine System | J. I can describe how the secretion of a single hormone from a gland can result in multiple responses in the body. |  |  |
| K. I can compare / contrast the different types of hormone molecules. |
| L. I can explain how various hormones are used in positive and negative feedback loops.  |
| 4. Defense – The Immune System  | M. I can describe the non-specific (innate) responses of both plants and animals to pathogens. |  |  |
| N. I can describe the specific immune response in mammals.  |