**Signal Transduction Pathways Name / Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Resource and Text page numbers:**

* **Holtzclaw Test Prep: Starts on page 53**
* **Text: Ch. 11, fig. 11.8**

**Give three reasons that cells might communicate with each other:**

**1.**

**2.**

**3.**

|  |  |  |
| --- | --- | --- |
| **Explain each step of a model Signal Transduction Pathway** | | |
| **Receive (Receptor)** | **Transduction** | **Response** |
|  |  |  |

**Types of Receptors**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **G-Protein-Coupled** | **Tyrosine Kinases** | **Gated Ion Channel** | **Steroid Hormones** |
| **Uses** | Very common, used in smell, taste, embryonic development.  60% of meds work at the G-protein receptor |  |  |  |
| **Diseases associated with** | Bacterial toxins often block these receptors |  |  |  |
| **Description**  **and how it works** |  |  |  |  |
| **Sketch** |  |  |  |  |