Cell Communication Worksheet Week3

Names:
Date:
Section (9am, 10am, 11am):

Directions: You have been given either a blue(receptor) or yellow(ligand) index card. On it there are some clues to suggest what type of cell signaling method elicits a cellular response when ligand and receptor are reunited. Your task is to find the person that has the appropriate ligand/receptor that matches your ligand/receptor. Once you find this person, work on the following questions. Turn in only one sheet per group.

General Questions:
1. The series of steps by which a signal on a cells surface is converted into a specific cellular response is called the?

2. Briefly list the 3 main steps to any cell signaling process?

3. What two types of Local Signaling in multicellular animals are described in your textbook?

4. Plants and animals use this type of signaling for signaling at greater distances and over a diffuse area.

5. List the two types of communication we went over in lecture that occurs via direct contact between cells?

Specific to your paired receptor and ligand. List your receptor and ligand clearly in the spaces provided below. Please draw a labeled diagram, and briefly describe the steps which occur in your specific signal transduction pathway.
Ligand Name:
Receptor Name:
Type of cell signaling (G-coupled protein, receptor tyrosine, etc).