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

**THE ANNUAL KNIGHTS SENSATION FAIR**

You and your group will be rotating through a series of stations today. Each of these stations is designed to give you a better perspective on sensation. Read about what you have to do at each station before you begin the task. Whatever station you begin at, please rotate to the next station in chronological order (people at station 6 will rotate to station 1, etc.) There is a limited amount of time at each station, so you will need to work fast!

**Station 1: Equilibrium**

What is equilibrium? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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Pick two or three members of your group to do the following: 1) Place forehead on the top of bat and hold the neck of the bat with both hands. Circle around the bat. 2) After 5 turns, rise to a standing position and stand on one foot with both arms extended for as long as you can without losing your balance. Another group member should count off the seconds (one Mississippi, two Mississippi, etc.). 3) Record the results for each group member below.

Name Amount of time standing

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**Station 2: Kinesthesis**

What is kinesthesis? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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Demonstrate this by having each member of your group close their eyes and touch the tip of their nose from an extended arm position repeatedly as fast as they can for 15 seconds. Make sure someone in the group is counting repetitions and someone else is keeping track of the time. Record the results for each group member below.

Name Number of nose touches

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**Station 3: Absolute Threshold/Vision**

Group members will determine how far away they can read a typewritten sentence. *Be sure to move the chair back away from the sentence before the subject sits down.* 1) Start sitting in the chair at the line. 2) Gradually slide the chair closer until you can read the sentence. 3) Measure the distance from the chair to the wall. To avoid memorizing the sentence, a variety of sentences are provided for you. Record the results below.

**Name Inches from the wall**

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**Station 4: Touch/Sharp v. Soft**

The book says that human have 4 touch sensations: pain, pressure, cold and warmth. You will be determining sensitivity to sharp and soft stimuli. 1) The subject needs to be blindfolded and roll up a sleeve. 2) Another group member will lightly touch the end of a Q-tip or the end of a toothpick on various parts of the arm and hand of the subject. 3) The subject says whether the stimulus feels sharp or soft. 4) Another group member keeps track of the results. After each person has participated, assess whether there seems to be some areas that are more sensitive to sharp and some that are more sensitive to soft. Describe the areas. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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**Station 5: Taste**

The book notes that the human tongue has 4 different taste receptors: sweet, salty, sour, and bitter. There are four cups with different solutions at this station. Using the Q-tips provided, locate where on your tongue you sense stimulation from each solution. Use a different Q-tip for each solution. DO NOT USE THE SAME Q-TIP! In the space below, draw a map of the tongue with the specific location of each of the taste receptors you felt stimulated by each solution.

**Station 6: Difference Threshold**

What is the “jnd”? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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This station should give you a rough sense of your just noticeable difference for weight. You will hold three different books and try to determine which is heavier. Each member of the group should do the following: 1) The subject should be blindfolded; 2) Another member puts a book of on each of the subject hands; 3) Note if the subject can tell a difference; 4) Do the same with the other books. Record below:

**Name Trial 1 Trial 2**

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