**Student Data Sheet**

**Two-Point Discrimination Experiment**

Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date \_\_\_\_\_\_\_\_\_\_\_\_\_

Your results as measured by your lab partner:

|  |  |
| --- | --- |
| Area of Skin Tested | Two-Point Threshold (mm) |
| 1.Tip of right finger near thumb (pointer) |  |
| 2. Tip of left finger near thumb (pointer) |  |
| 3. Middle palm of right hand |  |
| 4. Middle palm of left hand |  |
| 5. Middle top (nail side) of right hand |  |
| 6. Middle top (nail side) of left hand |  |
| 7. Inside of right lower arm near wrist |  |
| 8. Inside of left lower arm near wrist |  |
| 9. Tip of right elbow |  |
| 10. Tip of left elbow |  |
| 11. Back (nail side) of right lower arm near wrist |  |
| 12. Back (nail side) of left lower arm near wrist |  |
| 13. Middle of back of neck |  |
| 14. Middle of forehead |  |
| 15. Middle of chin |  |

1. Which area of your skin did you find to be most sensitive to touch? \_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. Which are of your skin did you find to be least sensitive to touch? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
3. Compare the skin areas of corresponding body parts (elbow, etc.) on your left and right sides. How many differences in sensitivity of more than 2 mm did you find? \_\_\_\_\_\_\_

Overall are both similar? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Conclusions:

1. What do you think the two-point threshold distance shows about the number of touch receptors found in a particular area of the skin?

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1. Relate the number of receptors in a skin area to the sensitivity of that area of the skin.

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1. Why do you think some areas of the skin more sensitive than others?

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1. Why do you think corresponding areas on the right and left sides of the body should be similar in sensitivity? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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Did this agree with your results? \_\_\_\_\_\_\_\_\_\_\_