Practical skin senses

You will examine which part of your body is most sensitive to touch.

Is it your fingertips, the palm of your hand or the upper or lower part of your lower arm?

**Materials**

* a paperclip
* a ruler
* a blindfold

**Method**

You will examine the sensitivity of four different places:

* fingertip
* inside hand
* inside of your lower arm (bottom)
* outside of your lower arm (top)

One of you will be the researcher, the other will be the test subject.

Start with the fingertip.

The test subject will need to be blindfolded.

The researcher unbends the paperclip and makes sure there is a distance of 2 mm between the two points. Now the researcher will put either 1 or 2 points on the fingertip of the test subject. Do this a total of 3 times. Write down if the test subject **did** or **didn’t** feel the correct amount of points.

Next you will make a distance of 5 mm between the points of the paperclip and repeat the procedure above.

Do the same for the distances 1 cm, 2 cm and 3 cm.

Now calculate how many percent of the time the test subject was correct.

When you are done with the fingertip, go on to the hand and both parts of the lower arm.

When you have finished, switch roles. The person who was the researcher is now the test subject and vice versa. Now repeat the experiment.

**Make sure to put the fill in the lab report on the next pages!**

# Lab report – practical skin senses

Names: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Class: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Research question:** What are you trying to find out?

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**Material:** What do you need to do this research?

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**Method:** How are you going to do this research?

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**Results:** What did you observe?

**Fingertip**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Distance | 2 mm | 5 mm | 1 cm | 2 cm | 3 cm |
| 1st x |  |  |  |  |  |
| 2nd x |  |  |  |  |  |
| 3rd x |  |  |  |  |  |

**Palm of hand**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Distance | 2 mm | 5 mm | 1 cm | 2 cm | 3 cm |
| 1st x |  |  |  |  |  |
| 2nd x |  |  |  |  |  |
| 3rd x |  |  |  |  |  |

**Inside lower arm**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Distance | 2 mm | 5 mm | 1 cm | 2 cm | 3 cm |
| 1st x |  |  |  |  |  |
| 2nd x |  |  |  |  |  |
| 3rd x |  |  |  |  |  |

**Outside lower arm**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Distance | 2 mm | 5 mm | 1 cm | 2 cm | 3 cm |
| 1st x |  |  |  |  |  |
| 2nd x |  |  |  |  |  |
| 3rd x |  |  |  |  |  |

**Fingertip**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Distance | 2 mm | 5 mm | 1 cm | 2 cm | 3 cm |
| 1st x |  |  |  |  |  |
| 2nd x |  |  |  |  |  |
| 3rd x |  |  |  |  |  |

**Palm of hand**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Distance | 2 mm | 5 mm | 1 cm | 2 cm | 3 cm |
| 1st x |  |  |  |  |  |
| 2nd x |  |  |  |  |  |
| 3rd x |  |  |  |  |  |

**Inside lower arm**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Distance | 2 mm | 5 mm | 1 cm | 2 cm | 3 cm |
| 1st x |  |  |  |  |  |
| 2nd x |  |  |  |  |  |
| 3rd x |  |  |  |  |  |

**Outside lower arm**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Distance | 2 mm | 5 mm | 1 cm | 2 cm | 3 cm |
| 1st x |  |  |  |  |  |
| 2nd x |  |  |  |  |  |
| 3rd x |  |  |  |  |  |

**Conclusion:** What is the answer to the research question? Can you explain your observations?

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**Evaluation:** Do you think you did the experiment correctly? When you compare your conclusion to others, what is different and why do you think it is?

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**Assessment**

With your partner, fill in the ‘student’ column. How many points do you think you deserve for each criteria?

After you have done that, hand it in to your teacher.

|  |  |  |  |
| --- | --- | --- | --- |
| **Assessment criteria lab report** | **max.** | **student** | **teacher** |
| Name, class and date are filled in | **2** |  |  |
| Research question | **3** |  |  |
| Materials | **3** |  |  |
| Method | **3** |  |  |
| Results | **3** |  |  |
| Conclusion | **3** |  |  |
| Neatness  | **3** |  |  |
| **Total** | **20** |  |  |