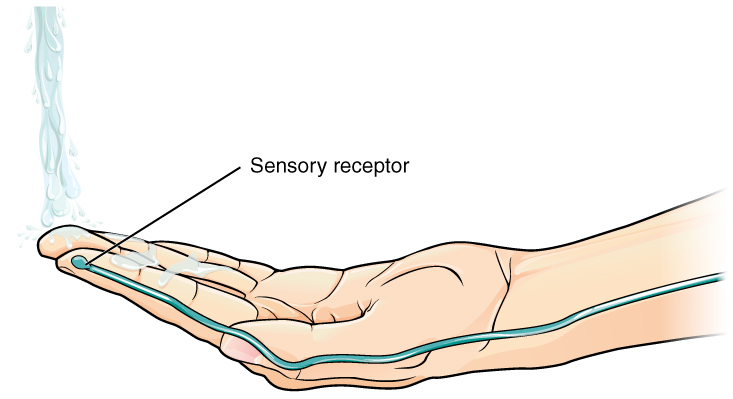
**Year 9 Sensory Receptor Investigation**

Based on activity 7.1 pg 235 Pearson Science 9

Your skin contains many touch receptors.



Your task is to determine how far apart the touch receptors are in different parts of your body.

You will determine the distance using two pins. If the pins touch the skin very close together they will feel like one pin as only one touch receptor has been stimulated. When you can feel two pins then you know two touch receptors have been stimulated.



There is a scaffold attached. You may use this as your draft, or you may do your draft on a separate piece of paper and hand this in as your final copy.

Please make sure you attach the marking key which is on the last page.

**Name:**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Title:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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**Introduction**

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**Hypothesis**

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**Materials**

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**Independent variable:**

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**Dependent variable:**

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**Controlled variables:**

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**Results:** Table

**Graph** (graph the average results from your group on a piece of graph paper and attach to your work).

**Discussion**

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**Conclusion**

(State general result, whether hypothesis was proven or disproven and use scientific reasons to explain why you got the results you did **or** why you would have expected different results).

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**References** (minimum two references)

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**Sensory Investigation Marking Key**

|  |  |  |  |
| --- | --- | --- | --- |
| **Content** | **Description** |  | **Your**  **mark** |
| Title | Explains what the investigation is about –  NOT ‘Biology Investigation’ | 1 |  |
| Aim | What do you want to discover by doing this experiment? | 1 |  |
| Introduction | Include back ground information that people need to know to understand your investigation, e.g. what are touch receptors? | 3 |  |
| Materials | Listed all materials used.  Is specific – has number of items used (5g of salt or 2 x 50ml beakers). | 1 |  |
| Hypothesis | Predictive statement including both independent and dependent variable.  Does not use ‘I’, ‘we’ or ‘maybe’. | 1  1 |  |
| Independent  variable | The variable I change (‘I’ for independent). When you change the independent variable the variable you are measuring (the dependent variable) will probably change too. | 1 |  |
| Dependent  variable | The variable you are measuring. Any change in this variable depends on what you do to the independent variable. | 1 |  |
| Controlled  variables | Listed minimum of two controlled variables. | 2 |  |
| Method | Is written in past tense (the water was poured into the beaker).  Is written in numbered step-by-step. Includes all the steps completed in experiment.  Includes labelled diagrams.  Should explain how each of your controlled variables were controlled. | 1  1  1  1 |  |
| Results  table | Drawn neatly in pencil and using a ruler.  Includes the headings and units of measurement.  Includes all the data collected during the experiment and averages. | 1  1  1 |  |
| Graph | You only need to graph the averages. | 5 |  |
| Discussion | Describe the results using numbers  Describes at least one mistake/error that occurred.  Explains how this mistake/error affected the results.  Explains how this mistake/error could be avoided. | 4 |  |
| Conclusion | Describe the trend (or not) shown in your results  State whether the hypothesis was supported or disproved.  Scientific reasons to explain results YOU WILL NEED TO DO SOME RESEARCH. | 2  3 |  |
| References | Minimum of 2 references. Minimum 2 types of sources.  Referenced in correct format as shown in student diary. | 1  1 |  |
| Presentation | Correct spelling, grammar, full sentences.  Written neatly or typed up neatly.  Subheadings used and highlighted appropriately. | 1  1 |  |
| **Total mark** | | 36 |  |