

EXP. NUMBER	EXPERIMENT/SUBJECT Skin Receptors	DATE 10/10/15
NAME Joseph Powell	LAB PARTNER Ebony / Roquel	LOCKER/DESK NO.
		COURSE & SECTION NO. DIP 101

Question: Which part of the skin is most receptive?

Introduction: In this experiment, we will try to find out which part of the skin is most sensitive. In order to do this, we will poke each other on different parts of our body to be able to guess how sensitive those parts are. If I poke the wrist, ~~from there~~ it will be more sensitive because the wrist has more nerves.

Variables:

- Independent Variable: Location
- Dependent Variable: Level of sensitivity
- Constants: Pen Person

Hypothesis: If I poke the wrist then it will be more sensitive because the wrist has more nerves.

Equations: N/A

Materials: Paper dip • Pen • Lab Partner

Procedure: Have Lab Partner touch wrist with Pen.

Observations: N/A

- Place your finger on the spot touched by the Lab Partner and hold it there.
- Measure the difference between the two spots. Record data in a table.

4. Repeat for other parts of body.

SIGNATURE Joseph Powell	DATE	WITNESS/TA Ebony Jones	DATE 1.6.14
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EXP. NUMBER 3	EXPERIMENT/SUBJECT Skin receptors	DATE	08
NAME Joseph Powell	LAB PARTNER Rocquel Ebony	LOCKER/DESK NO.	COURSE & SECTION NO.

Data:

#	Location	Left trial #1 cm	Left trial #2 cm	Right Trial #1 cm	Right trial #2 cm	Average
1	Wrist	0	1/2 cm	0	1 cm	0.5
2	Elbow	0	2 1/2 cm	1 1/2	0	1
3	Bottom of Arm	0	4 cm	1 cm	1 1/2 cm	1.5
4	Top of arm	2 cm	1 1/2 cm	0	3 1/2 cm	1.75
5	front of knee	1/2 cm	1 cm	0	2 cm	0.5
6	upper leg	0	3 cm	1	2 1/2 cm	1.5
7	Lower leg	4	2 cm	1	1/2	1.8
8	Back of hand	4 cm	1 1/2 cm	5	0	2.1
9	Palms of hand	2	0	0	0	0
10	chin	0	0	0	1/2	0.25
11	Cheek	1 1/2	2	0	0	0.5
12	nose	0	0	0	0	0
13	upper back	0	3	0	0	2
14	Lower back	2	1	3	3.5 cm	1.5
15	Tip of bottom	1	0	1.5 cm	0	0

Conclusion: My hypothesis was incorrect, ~~the~~
 2 pieces of evidence disproved my hypothesis to be incorrect:
 1. the palm of the hand was 0.
 2. Back of the hand was also 0.

SIGNATURE <i>Joseph Powell</i>	DATE	WITNESS/TA <i>Rocquel Ebony</i>	DATE
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EXP. NUMBER 3	EXPERIMENT/SUBJECT Skin receptors	DATE	07
NAME Joseph Powell	LAB PARTNER Rachel Ebner	LOCKER/DESK NO.	COURSE & SECTION NO.

• Sources of error:

1) Done spt was noted harder than the other
2)

• Things to change in the experiment

- 1) Same Person should be used in experiment
- 2) accurate measurements.

• two questions about experiment

- 1) Why can't we change the type of measurements?
- 2) Why aren't some spots more sensitive?

Real world connection?

SIGNATURE Joseph Powell	DATE	WITNESS/TA Rachel Ebner	DATE
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Name: Joseph Powell

Period: 7

SCIENCE NOTEBOOK RUBRIC

Performance Element	Excellent (4 pts)	Proficient/Good (3 pts)	Developing (2 pts)	Needs Revision (1 pt)	Earned Points
Organization (x 3)	<ul style="list-style-type: none"> <input checked="" type="checkbox"/> The notebook divided into the respective subsections. <input checked="" type="checkbox"/> Relevant information such as student name, date and signature present on first page <input checked="" type="checkbox"/> well written, organized and neat. <input checked="" type="checkbox"/> contains all required elements: title, hypothesis, materials, etc. 	<p>Missing or have not clearly identified one of the following:</p> <ul style="list-style-type: none"> <input type="checkbox"/> The notebook divided into the respective subsections. <input type="checkbox"/> Relevant information such as student name, date and signature present on first page <input type="checkbox"/> well written, organized and neat. <input type="checkbox"/> contains all required elements: title, hypothesis, materials, etc. 	<p>Two key elements missing or not clearly identified:</p> <ul style="list-style-type: none"> <input type="checkbox"/> The notebook divided into the respective subsections. <input type="checkbox"/> Relevant information such as student name, date and signature present on first page <input type="checkbox"/> well written, organized and neat. <input type="checkbox"/> contains all required elements: title, hypothesis, materials, etc. 	<p>More than two key elements missing/not clearly identified.</p> <ul style="list-style-type: none"> <input type="checkbox"/> The notebook divided into the respective subsections. <input type="checkbox"/> Relevant information such as student name, date and signature present on first page <input type="checkbox"/> well written, organized and neat. <input type="checkbox"/> contains all required elements: title, hypothesis, materials, etc. 	<p><u>12</u></p>
Procedure (x 5)	<p>Procedures are:</p> <ul style="list-style-type: none"> <input checked="" type="checkbox"/> Written in command <input checked="" type="checkbox"/> Written in a list <input checked="" type="checkbox"/> Does not use I, we, you <input checked="" type="checkbox"/> Specific <input checked="" type="checkbox"/> Refer to glassware and instruments used <input checked="" type="checkbox"/> Includes any measurements 	<p>Procedures are missing one of the following:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Written in command <input type="checkbox"/> Written in a list <input type="checkbox"/> Does not use I, we, you <input type="checkbox"/> Specific <input type="checkbox"/> Refer to glassware and instruments used <input type="checkbox"/> Includes any measurements 	<p>Procedures are missing two of the following:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Written in command <input type="checkbox"/> Written in a list <input type="checkbox"/> Does not use I, we, you <input type="checkbox"/> Specific <input type="checkbox"/> Refer to glassware and instruments used <input type="checkbox"/> Includes any measurements 	<p>Copied from the handout OR MISSING more than two:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Written in command <input type="checkbox"/> Written in a list <input type="checkbox"/> Does not use I, we, you <input type="checkbox"/> Specific <input type="checkbox"/> Refer to glassware and instruments used <input type="checkbox"/> Includes measurements 	<p><u>20</u></p>
Observations / Data & Calculations (x 3)	<ul style="list-style-type: none"> <input checked="" type="checkbox"/> Observations are plentiful and specific for each experiment <input checked="" type="checkbox"/> Charts and graphs are recorded where necessary. <input checked="" type="checkbox"/> Data is properly recorded in a coherent table <input checked="" type="checkbox"/> Proper calculations are carried out. <input checked="" type="checkbox"/> Proper units are used. 	<p>Missing one of the following:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Observations are plentiful and specific for each experiment <input type="checkbox"/> Charts and graphs are recorded where necessary. <input type="checkbox"/> Data is properly recorded in a coherent table <input type="checkbox"/> Proper calculations are carried out. <input type="checkbox"/> Proper units are used 	<p>Missing two of the following:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Observations are plentiful and specific for each experiment <input type="checkbox"/> Charts and graphs are recorded where necessary. <input type="checkbox"/> Data is properly recorded in a coherent table <input type="checkbox"/> Proper calculations are carried out. <input type="checkbox"/> Proper units are used 	<p>No data table present. Observations are vague and unclear. Calculations unclear or incorrect.</p>	<p><u>12</u></p>

Name: _____

Period: _____

<p>Discussion (x4)</p>	<p><input type="checkbox"/> All questions are answered thoroughly</p> <p><input type="checkbox"/> Answers to all questions are correct</p>	<p><input checked="" type="checkbox"/> Most questions are answered thoroughly</p> <p><input type="checkbox"/> Most answers to questions are correct</p>	<p><input type="checkbox"/> Some questions are answered thoroughly</p> <p><input type="checkbox"/> Some answers to questions are correct</p>	<p><input type="checkbox"/> Most answers are missing.</p> <p><input type="checkbox"/> Most answers are incorrect</p>	<p style="text-align: right;"><u>12</u> 16</p>
<p>Conclusion (Post-Lab) (x5)</p>	<p><input checked="" type="checkbox"/> Restates hypothesis is</p> <p><input checked="" type="checkbox"/> States hypothesis is incorrect/correct</p> <p><input checked="" type="checkbox"/> Data is analyzed thoroughly and correctly</p> <p><input checked="" type="checkbox"/> It's used to support valid conclusions</p> <p><input checked="" type="checkbox"/> 2 Sources of error in experiment explained</p> <p><input checked="" type="checkbox"/> 2 ways to improve the experiment is explained</p> <p><input checked="" type="checkbox"/> Asks a new question</p> <p><input checked="" type="checkbox"/> Makes a connection to how experiment could be used in real life.</p>	<p><input type="checkbox"/> One key element of conclusion is missing or not fully expanded upon (i.e. evidence, sources of error, etc.):</p> <p><input type="checkbox"/> Restates hypothesis is incorrect/correct</p> <p><input type="checkbox"/> States hypothesis is incorrect/correct</p> <p><input type="checkbox"/> Data is analyzed thoroughly and correctly.</p> <p><input type="checkbox"/> It's used to support valid conclusions</p> <p><input type="checkbox"/> 2 Sources of error in experiment explained</p> <p><input type="checkbox"/> 2 ways to improve the experiment is explained</p> <p><input type="checkbox"/> Asks a new question</p> <p><input type="checkbox"/> Makes a connection to how experiment could/be used in real life</p>	<p><input type="checkbox"/> Two key elements of conclusion are missing:</p> <p><input type="checkbox"/> Restates hypothesis is incorrect/correct</p> <p><input type="checkbox"/> Data is analyzed thoroughly and correctly. It's used to support valid conclusions</p> <p><input type="checkbox"/> 2 Sources of error in experiment explained</p> <p><input type="checkbox"/> 2 ways to improve the experiment is explained</p> <p><input type="checkbox"/> Asks a new question</p> <p><input type="checkbox"/> Makes a connection to how experiment could be used in real life</p>	<p><input type="checkbox"/> Paraphrases manual with little data analysis</p> <p><input type="checkbox"/> Conclusions may be wrong or data misinterpreted.</p> <p><input type="checkbox"/> More than two key elements missing from conclusion.</p>	<p style="text-align: right;"><u>15</u> 20</p>
<p>Fulfilling Deadlines/ Professionalism (x5)</p>	<p><input type="checkbox"/> Handed in on time</p>	<p><input type="checkbox"/> Handed in one day late</p>	<p><input type="checkbox"/> Handed in two days late</p>	<p><input type="checkbox"/> Handed in more than three days late</p>	<p style="text-align: right;"><u>20</u> 20</p>
<p>Score:</p> <p style="text-align: right;">Total Score (/100 pts):</p>					<p style="text-align: right;"><u>91%</u></p>