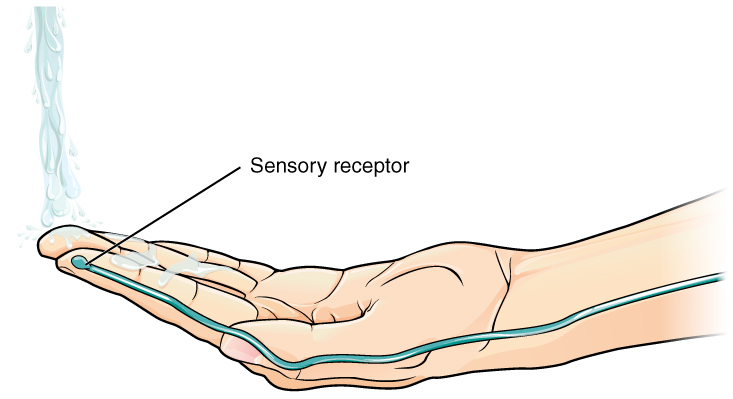
**9 SCIENCE BIOLOGY ASSIGNMENT: SENSORY RECEPTORS 2016**

[](http://www.google.com.au/imgres?imgurl=http://www.recruiter.com/i/wp-content/uploads/2013/08/CURIOUS-INTERESTED-CAT-DOCTOR.jpg&imgrefurl=http://www.recruiter.com/i/we%E2%80%99re-interested-really-means-what%E2%80%949-kinds-of-interest-you-need-to-distinguish/&h=900&w=900&tbnid=1db40oenmDYzlM:&zoom=1&q=cat%20doctor&docid=HXVVIXheb0NeSM&ei=ZsvRU8CcLdKJuAT_-YHQCg&tbm=isch&ved=0CF0QMyg3MDc&iact=rc&uact=3&dur=118&page=2&start=47&ndsp=45)

Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Teacher: Miss Milner

Form:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Due date:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_



*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.



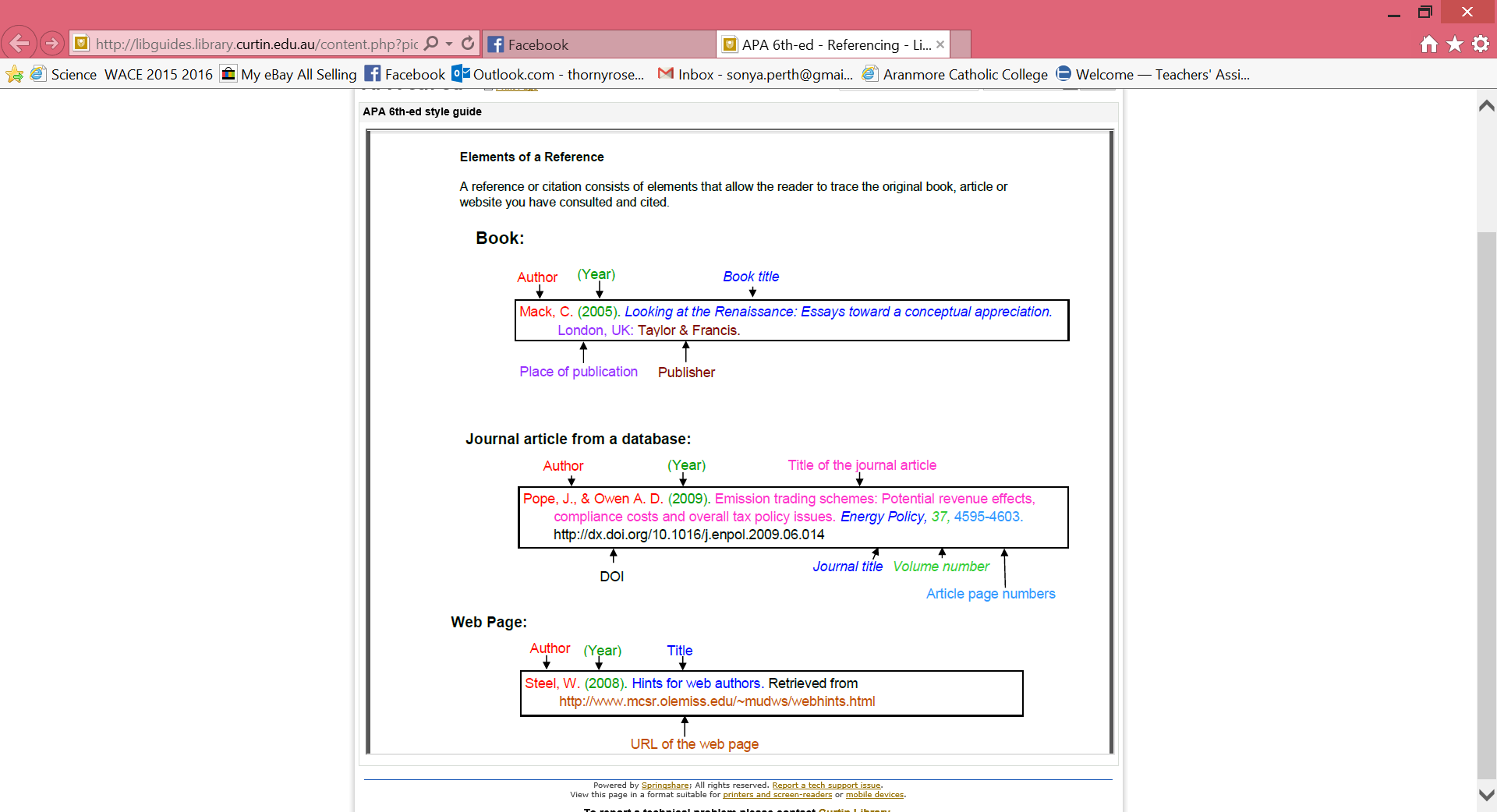
*You may use the scaffold as your draft or you may do your draft on a separate piece of paper and hand this in as your final copy.*

**Hand in the following stapled neatly together in this order:**

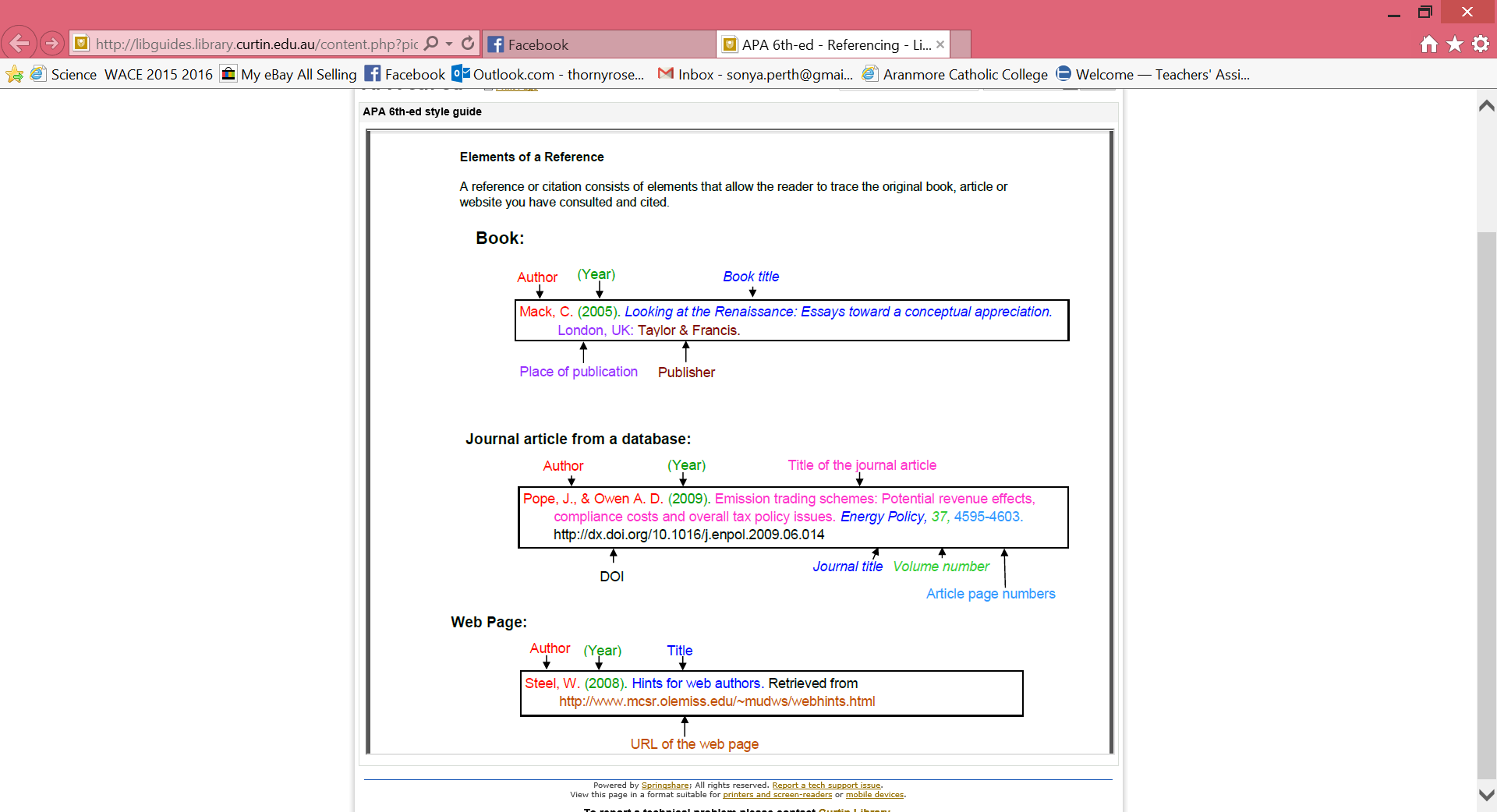
1. This booklet.

2. Your good copy (if the scaffold is not your good copy).

3. Your graph.

**Plagiarism**

You must write in your own words not copy sentences word for word from another student or another source.

Plagiarising = instant zero on assignment and you will have to re-do it.

**Referencing:** page 196 of your diary has more information on referencing.

**Assessment policy**

Have sick note/legitimate reason from parent = new negotiated due date.

Assignment not submitted on due date and no sick note from parents = -20% mark

Assignment not submitted on new negotiated due date = -40% mark

+ Letter home to parents.

+ Must attend academic completion to complete assignment.

**OR**

Submit assignment to student services before academic completion date and academic completion not necessary.

Academic completion not attended = zero on assignment + Saturday detention.

**If you know that you cannot submit your assignment on the due date, let your teacher know BEFORE the due date (email them if you are not at school) or just email them your assignment the night before.**

**Notes about sensory receptors**

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

**Aim:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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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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**Method:**

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Labelled diagrams:

**Results:** table

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

**Discussion:**

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**Conclusion:**

(State general result with numbers, 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 | Describes at least one mistake/error that occurred.  Explains how this mistake/error affected the results.  Explains how this mistake/error could be avoided. | 1  1  1 |  |
| Conclusion | One sentence stating the result of the experiment using figures (numbers) from your results.  One sentence stating whether the hypothesis was supported or disproved.  Scientific reasons to explain results. | 1  1  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 |  |

Mark as percentage %

Teacher’s comments:

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