Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Due Date:

**[](http://www.google.com.au/imgres?um=1&hl=en&biw=1920&bih=931&tbm=isch&tbnid=tNx50eSFjW2l5M:&imgrefurl=http://www.softchalk.com/lessonchallenge10/lesson/k21%20final/livingthings/softchalk-challenge-2010_print.html&docid=NZZM2RtWqCzLNM&imgurl=http://www.softchalk.com/lessonchallenge10/lesson/k21%20final/livingthings/eggs.png&w=300&h=200&ei=M9wqUb-3KMvFkQXHtoGQBQ&zoom=1&ved=1t:3588,i:234&iact=rc&dur=3492&sig=113763220239116250689&page=2&tbnh=160&tbnw=209&start=31&ndsp=40&tx=75&ty=96)Eggs and Osmosis Report**

*Eggs are surrounded by a membrane which is covered in a shell.*

*Your group will be given two eggs from which the shell has been dissolved with vinegar, leaving the membrane.*

Your task is to determine under what conditions water will enter an egg

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | 0 | 1 | 2 | 3 |
| Practical conduct |  |  |  |  |
| Scientific format/  Presentation |  |  |  |  |
| Aim |  |  |  |  |
| Introduction |  |  |  |  |
| Hypothesis |  |  |  |  |
| Independent Variable |  |  |  |  |
| Dependent Variable |  |  |  |  |
| Controlled Variables |  |  |  |  |
| Materials/ Equipment |  |  |  |  |
| Method/ Diagram |  |  |  |  |
| Results |  |  |  |  |
| Discussion |  |  |  |  |
| Conclusion |  |  |  |  |
| References |  |  |  |  |
| Total |  |  |  | /30 |

**Investigation Cheat Sheet**

**Title** – Should tell the reader something about your experiment.

**Aim** – Why are you doing this experiment? What do you want to find out?

**Introduction** - Explain the nature of the problem, give background information

**Hypothesis** – Your own prediction on what you think will happen. Do not say ‘I predict” or “I think”. It doesn’t matter if you are right or not. You may choose to write it as:

**If** *we do this to the independent variable*

**Then** *this will happen to the dependent variable*

**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.

**Dependent Variable** - The variable you are measuring. Any change in this variable **depends** on what you do to the independent variable.

**Controlled Variables** - All the things you keep the same to make it a fair test. You should usually list at least three.

**Materials** - A list of the equipment you used.

You should include amounts eg 3 x 250ml beakers or 15g of salt.

**Method** - A list of instructions detailed enough so that someone else could follow to repeat your experiment exactly the way you did it.

It should be written in past tense without using I or we

Including a labeled diagram to show your set up is usually a good idea.

**Results** - This will nearly always include a table and often a graph. You may also include diagrams and descriptions. No opinions.

**Discussion** - Describe what trend your results have shown (or not). No reasons given here.

What went wrong? Were there any errors? What may have been the effect of these errors on your results?

What could you improve about your procedure next time?

**Conclusion** - Was your hypothesis supported or disproved (in Science you are never proven right only supported). Use past tense.

What are the scientific reasons behind your results? You may need to do some research.

**References** As set out in your diary.