



**CALIFORNIA STATE SCIENCE FAIR
2015 PROJECT SUMMARY**

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| Name(s) Saida M. Woolf | Project Number J2215 |
| Project Title The Quest for the Easy Peeling Egg | |
| <p style="text-align: center;">Abstract</p> <p>Objectives/Goals The purpose of my experiment was to determine how the age of an egg affects how well it peels. My hypothesis is: the older the egg, the easier it will peel.</p> <p>Methods/Materials I used the following materials: 3 dozen eggs, pot, water, litmus paper and stovetop. My procedure is as follows: 1. (Phase I) Buy a carton of 12 eggs and record the Julian date. 2. Boil 4 of the eggs right away (see recipe for boiling eggs). 3. Peel them after they cool and record how hard they were to peel. 4. Repeat at 7 days and 14 days. 5. (Phases 2 & 3) Buy two dozen farm fresh egg.s 6. Refrigerate one dozen (phase 2) and leave other dozen on the counter (phase 3). 7. Crack one egg from each carton and measure their ph using litmus paper. 8. Boil 3 eggs from each carton. 9. Peel them after they cool and record how hard they were to peel. 10. Repeat when each carton is 7 and 14 days old.</p> <p>Results My results showed that the unrefrigerated eggs peeled the best and the refrigerated eggs slowly got easier and easier to peel.</p> <p>Conclusions/Discussion My conclusions were that my hypothesis was correct. A future experiment could be to do the same thing as phase 2, but add baking soda to the pot while the eggs are boiling.</p> | |
| Summary Statement My experiment determined how the age of a hard boiled egg affects how well it peels. | |
| Help Received My dad helped me boil the eggs. | |