



7. MAKE CONCLUSIONS

- Summarize the WHOLE experiment in a QUALITY, 3rd person PARAGRAPH! Include:
 - Restate the problem (*The problem in this experiment was “...?”.*)
 - State the MAJOR findings of the experiment (what is the answer to the problem?) AND explain how the findings relate to the problem. (*The major findings of the experiment included.... The connections between the findings and the problem are.....*)
 - Tell if the hypothesis was SUPPORTED or DENIED. Explain why. (*The hypothesis was....because.....*)
 - Rewrite a hypothesis based on the experimental results (*Based on the results, the hypothesis should be, “if..., then...because...”.* OR *Based on the results, the hypothesis remains, “if..., then...because...”.*)
-



7. MAKE CONCLUSIONS (cont.)

- Compare the original (book) and experimental (lab) research. Explain similarities & differences. (*The original research stated.....; however, in the experiment....* OR *The original research stated..... and the experimental research found the same.*)
 - Explain sources of error. What went wrong? What affected the results? Tell HOW the errors affected the results. (*Sources of error throughout the experiment include... These errors affected the results because....*)
 - Make recommendations for future research. (Write a NEW problem to experiment with in order to get more information on the topic) (*In the future, scientists should investigate the problem, “What is the effect of.... on....?” to learn more about this topic.*)
 - Explain the impact on the scientific community (why would others care about what was learned?) (*The scientific community is interested in the findings from this experiment because they....*)
-



Sample conclusion:

The **problem in this experiment** was “What is the effect of convection currents on movement of the earth’s plates?”. **The major findings included** that a current was created from the hotter area towards the cooler area and the plates moved with the current. **The hypothesis was supported because** it predicted that the plates would move along with the currents. **Based on the results, the hypothesis** remains: “If convection currents occur in the asthenosphere below the lithospheric plates, then the plates will move in the direction of the current because of the current’s force.”. **The original research stated** that the plates above the convection currents are constantly in motion because of the currents **and the experimental research found the same.** **Sources of error throughout the experiment include** the air conditioning coming on and using too many “paper dots” creating too much weight for the currents. **In the future, scientists should investigate the problem,** “What is the effect of temperature differences on the speed of convection currents and plate movement?” **to learn more about this topic.** **The scientific community is interested in the findings from this experiment because they** can predict the speed and direction of plate movement using data from the convection currents.