|  |
| --- |
| ***PROCEDURE & MATERIALS***  **MATERIALS:**  100 styro-foam cups  1 bag of sulfate of ammonium fertilizer  1 bag of vermiculite  1 bag of ryegrass seed  5 one gallon containers  Pie dishes  Dibble  Camera  Area to store plants in the sun  Area to store plants in case of rain  Distilled water  Sharpie marker  **PROCEDURE:**  1. Take the 100 stryo-foam cups, and punch holes on the bottom.  2. Fill each cup with vermiculite, and screed the top.  3. Dibble the vermiculite.  4. Place a measured amount of ryegrass seed on top of vermiculite.  5. Screed the seed.  6. Add more vermiculite on top of the seeds, and screed.  7. Dibble the vermiculite.  8. Place all 100 hundred cups in the pie dishes which should all have the same amount of distilled water.  9. Let the cups soak.  10. After the seeds have germinated, let the ryegrass grows about 1 cm.  11. Pick 60 of the most uniform plants to begin treatment.  Treatment  1. In the one- gallon containers, create a serial dilution of the sulfate of ammonium with water.  2. The control treatment has no sulfate of ammonium, and the highest has saturated sulfate of ammonium in it.  3. The other 3 treatments are serial dilutions from the saturated (ask chemistry expert for help).  4. Once all five treatments are ready, take the 60 plants and divide them into 5 groups of 12.  5. Label the five different groups of plant 1- 5, with one being the control, and 5 being saturated on each cup.  6. Also, label the five different treatment containers 1-5 for ease in watering.  7. Put all the like numbers in one area on the table.  8. Fill the pie dishes of group number 1 with one cup of number 1 treatment.  9. Fill the pie dishes of group number 2 with one cup of number 2 treatment�etc.  10. Re-water plant every other day with their respective treatments.  11. Every 5 days measure the growth for each plant, separating the data into 5 groups.  12. After 3-4 weeks, sufficient data should be collected.  13. Take a final measurement on the last day of data collection.    [[Home](http://docs.google.com/home.html)][[Introduction](http://docs.google.com/introduction.html)][[Hypothesis](http://docs.google.com/hypothesis.html)][[Procedure](http://docs.google.com/procedure.html)][[Data](http://docs.google.com/data.html)][[Conclusions](http://docs.google.com/conclusions.html)][[Bilio/Links](http://docs.google.com/biblio.html)]  [[2001 Projects](http://docs.google.com/index.html)][[2000 Projects](http://docs.google.com/AP2000/index.html)][[1999 Projects](http://docs.google.com/AP99/index.html)][[1998 Projects](http://docs.google.com/AP98/index.html)] |