Mathematicians and scientists all keep a detailed record of their progress on the problems they are working on. They will record this in a notebook or they will keep a file. The Notebook for this course is for recording your work. It can be any kind of binding; spiral, three ring or fixed lab book. Each project should start on a fresh page. When I collect homework, you will turn in the entire notebook. You should take pride in the appearance of your notebook. The grading of your notebook will be done according to the following rubric:

Grading Rubric

1. Title. This section should include a general description of the problem.
2. Questions. To make progress you will need to pose questions, the kind of questions where the answers will lead you to more questions and new ideas.
3. Conjectures. What do you think might be true? Say it in a declarative sentence.
4. Experiments. Try an example and see if your conjecture is true in the example.
5. Observations. Based on the experiments, your observations should confirm or deny a conjecture. Look at your examples with an eye to answering your questions.
6. Conclusions. Written as declarative sentences, the conclusions are hopefully true statements.
7. Critiques. Perhaps an example is too specific to be helpful, or a conjecture led you in a wrong direction, this is the place to discuss this type of issue.
8. Explanations. You should attempt to justify your conclusions.
9. Narrative flow. Write in complete sentences, clearly formulating concepts. Query, exploration, conclusion, critique and explanation should come together in a coherent story.