Fruit Fly Genetics Inquiry Lab

Go to: <http://www.sciencecourseware.org/vcise/drosophila/>

Instructions:

1. Title the top of your paper Fruit Fly Genetics Inquiry Lab
2. Click on the website above and use the following class code to register and create and account: **14366971**
3. Read “The Lab Bench: Your Task”
4. Follow instructions to order your flies. You may choose flies with whatever characteristics you desire to study. Remember your goal is to figure out the inheritance pattern of the traits you pick.
5. Perform various crosses to better understand fruit fly genetics and make notes/Punnett squares etc. in your lab notebook. Make sure your notes are clear and easy to understand (showing which cross you performed, what the results were, etc.)
   1. You will use the notes you take to help you on the Quiz!
6. Here are some questions to consider:
   1. Which traits are dominant/recessive?
   2. Do any traits show codominance or incomplete dominance?
   3. Are characteristics sex-linked?
   4. Do two characteristics assort independently or are they linked on the same chromosome?
   5. Anything else you are curious about.
7. After you are confident that you understand various inheritance patterns in fruit flies, take the **Quiz! This will count for a grade so make sure to send it in online!**
8. Have fun and figure out how fruit fly genetics work!