

LAB NOTEBOOK EVALUATIONS

NAME \_\_\_\_\_ Date of Evaluation \_\_\_\_\_

**General**

Is it clear who the owner of this lab notebook is? \_\_\_\_\_

Is there sufficient information to return this notebook to the owner? \_\_\_\_\_

Are the pages numbered? \_\_\_\_\_

Is there a table of contents? \_\_\_\_\_

Have entries been made in pen? \_\_\_\_\_

**Week 1 -2 Observing and Quantifying behavior with Jwatcher**

Is the name of the collaborator (partner) in the lab notebook? \_\_\_\_\_

What species is being observed? \_\_\_\_\_

Are there notes about which articles were consulted during the hypothesis development? \_\_\_\_\_

Is there evidence of *ad libitum* observation during week 1 or 2 ? \_\_\_\_\_

Is there record of a clear research hypothesis in week 1? \_\_\_\_\_

On what page can I find information about the conditions under which the crickets were housed for one week? \_\_\_\_\_

When were the crickets checked and fed between labs? \_\_\_\_\_

Is the ethogram included in the lab notebook? \_\_\_\_\_

with key codes for Jwatcher? \_\_\_\_\_

Are all file names recorded in the lab notebook along with the location that these files were stored? \*.gdf \_\_\_\_\_ \*.faf \_\_\_\_\_ \*.fmf \_\_\_\_\_ \*.dat \_\_\_\_\_

Are graphs attached to the lab notebook? \_\_\_\_\_ (if not, is the name of the computer file containing the graphs indicated in the lab notebook? \_\_\_\_\_)

What (if anything) was the experimenter able to conclude anything from the observations?  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

On what page are the brief concluding statements recorded? \_\_\_\_\_

Attach this evaluation to the lab notebook. Indicate on that page what has been attached, when it was attached, and who attached it. Enter this item in the table of contents. This evaluation is meant to provide feedback regarding the usefulness of the lab notebook. Students should use these comments to improve lab notebook skills for the independent projects.

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**Week 3 Zoo observations**

What date was the zoo visited? \_\_\_\_\_ Is that indicated in the lab notebook? \_\_\_\_

Is the name of the collaborator (partner) indicated in the lab notebook? \_\_\_\_\_

Are page numbers for the zoo lab included in the table of contents? \_\_\_\_\_

Which species was being observed? \_\_\_\_\_

Is there a description of the enclosure and population being observed? \_\_\_\_\_

Is there evidence of all requested recording techniques:

- Ad libitum*? \_\_\_\_ what was the total length of session? \_\_\_\_\_
- Focal animal with continuous recording? \_\_\_\_\_
- Behavior recording? \_\_\_\_ how many behaviors were recorded? \_\_\_\_\_
- scan sampling with timed recording with instantaneous recording? \_\_\_\_\_  
(what was the interval \_\_\_\_\_)
- scan sampling with timed recording with 1/0 recording? \_\_\_\_\_  
(what was the interval \_\_\_\_)

On what page can someone find detailed ethogram that would allow another researcher to reliably score the same behaviors? \_\_\_\_\_

Is there any notation to indicate which recording methods did or didn't work? \_\_\_\_\_

Are there notes regarding the data analysis that was done after the zoo? \_\_\_\_\_

What is the name of the computer file(s) that were used to make the figures for the grant proposal or presentation? \_\_\_\_\_ On what page, can that information be found? \_\_\_\_

Do you have any suggestions that would help to make this a more accurate record of what was being done as it was done?

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**Week 4 Guppy lab**

What was the date of the guppy experiment? \_\_\_\_\_ pg. # \_\_\_\_\_

Is the lab partner's name recorded in the lab notebook? \_\_\_\_\_ pg. # \_\_\_\_\_

On what page can one find information about the tank set up? \_\_\_\_\_ pg# \_\_\_\_\_

What was the duration of the observation period? \_\_\_\_\_

What are the file names for the guppy images?

Can you find these guppy images on the server?

Which images correspond to the first male guppy observed?

Is there information about what program was used to measure the orange area of the male guppy?

What was the name of the data file produced by the lab partners?

What was the name of the data file that you used for statistical analysis?

Where would did you find conclusions following the statistical analysis? \_\_\_\_\_ pg#  
(don't forget, analysis is part of lab, there should be notes during the statistical analysis.)

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**Week 3 - 5 Natural Variation in *Drosophila* Behavior**

Looking at the Table of Contents, how many pages contain information about the fly lab experiment? \_\_\_\_\_ How many different days was this? \_\_\_\_\_

How many articles were consulted during the design &amp; execution of the experiment? \_\_\_\_

Include citation for one here.

What was the hypothesis being tested? (maybe there wasn't one?)

Where is the information about where the flies were collected? \_\_\_\_\_ pg #

Where is the information about how the flies were maintained? \_\_\_\_\_ pg #

What supplies were needed for the experimental set up?

Where were these supplies obtained?

In what way (if any) was the final experiment conducted differently than intended?

Where can I find raw data? \_\_\_\_\_ pg # (might indicate data set)

Where can I find descriptive statistics or a summary graph of the dataset? \_\_\_\_\_ pg #

What is the strongest conclusion you can draw from the experiment based on the lab notebook?

In addition to the above, you should be able to locate daily objectives and conclusions for each day leading up to the final experiment.

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