

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 & 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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