**Turtle Lab Report Rubric**

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|  | **A** | **B** | **C** | **D-F** |
| **Title**  |  |  |  |  |
| 🞎 Summarizes experimentLab Report: Turtle Righting Time to Establish Predator Avoidance Ability |
| **Introduction**  |  |  |  |  |
| **Purpose**: 🞎 Restate the purposeEstablish predator avoidance of baby turtles to make recommendation to the zoos about who to release before and after the head-starting program. Goal of head-start program: protect native turtle from invasive species such as bullfrog. 🞎 Give a recap of the experiment* hatchling turtles
* flipped them
* timed them to see how quickly they corrected their position (righting time)
* recorded the data
* look at data:
	+ who flipped the fastest and the slowest

🞎 Specimen we studied and slight background info.Western pond turtle *(Emy/Clemmy/Actinemmys marmorata)*Only native turtle in ca (Pers. Com. Zannie Dallara)🞎 Reference research \*site sources4 sources🞎 What we hope to learn Establish a recommendation: Who released when and why.Release the Weak **Keep Most fit:** + Benefits pop making sure the best genes make it* Might have been ok on its own, making it a waste of resources

**Keep Crappy turtle:** + improve survivorship of a turtle that probably wouldn’t have made it on its own. + save more turtles overall. * waste of resources
* this turtle makes it when it shouldn’t have and it spreads its crappy gene to the pop.

🞎 Reference/explain: homeostasis, endothermy, ectothermy, metabolism, negative feedback loop | **Hypothesis**🞎 State the hypothesis (if…then…because…) If a turtle flips over fasterThen it is more fitBecause it would be more adapted to avoid predation 🞎 Explanation of prediction-predict outcome |
| **Materials and Methods**  |  |  |  |  |
| **~~Materials:~~** ~~🞎 List all materials~~ ~~🞎 Identify independent variable~~ ~~🞎 Identify dependent variable~~~~🞎 Controls/constants~~  | **Method:** 🞎 List of procedure- Numbered is ok |
| **Results & Conclusion** |  |  |  |  |
| **Results:** 🞎 Observations: Qualitative and Quantitative some just layed there for a while before they made an effortused head and tail to flip 🞎 Include data table (Data table is labeled and units are noted) Online | **Conclusion:** 🞎 Restate your purpose🞎 Use data to support conclusion We were able to identify faster and slower righting times. 🞎 Draw conclusions based on data43, 25, 21 (see Table 1)= slow flipping time = release soon, don’t waste resources on them rest were pretty speedy, especially 31, 35, 🞎 Explanation of observed phenomenarighting time is a good measure because if a hatchling cant flip it wont survive. An upside down hatchling is an easy target for predators.🞎 Explain why data does/does not confirm your hypothesisrecap hypoth. our data didn’t directly measure there survivorship but it served as a proxy (estimate) without putting them in danger. Likely that the faster flippers are more fit. 🞎 Compare findings to research \*site sources reference article 🞎 Explain any inconsistencies Nope🞎 Explain any sources of erroriPhone issues, delay in timing 🞎 Make suggestions for improvement… |
| **Bibliography & Reference Material** |  |  |  |  |
| 🞎 Sources sited using 🞎 Minimum of **4 sources** Example: turtles over 33˚C1. Or (1). | 🞎 Include a figure (see Figure 1.) - reference both. 🞎 Include a data graphic (see Table 1.)  |
| **Lab Report:**  |

 **/50pts**

**A=45-50 B=46-40 C=39-35 D=34-30 F=29⇓**