

Turtle Lab Report Rubric

	A	B	C	D-F		
Title						
<input type="checkbox"/> Summarizes experiment Lab Report: Turtle Righting Time to Establish Predator Avoidance Ability						
Introduction						
<table style="width: 100%; border: none;"> <tr> <td style="width: 50%; vertical-align: top; border: none;"> <p>Purpose:</p> <input type="checkbox"/> Restate the purpose Establish 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. <input type="checkbox"/> Give a recap of the experiment <ul style="list-style-type: none"> • hatchling turtles • flipped them • timed them to see how quickly they corrected their position (righting time) • recorded the data • look at data: <ul style="list-style-type: none"> ○ who flipped the fastest and the slowest <input type="checkbox"/> Specimen we studied and slight background info. Western pond turtle (<i>Emy/Clemmy/Actinemmys marmorata</i>) Only native turtle in ca (Pers. Com. Zannie Dallara) <input type="checkbox"/> Reference research *site sources 4 sources <input type="checkbox"/> What we hope to learn Establish a recommendation: Who released when and why. Release the Weak <div style="background-color: #FF00FF; padding: 2px;">Keep Most fit:</div> <ul style="list-style-type: none"> + Benefits pop making sure the best genes make it <ul style="list-style-type: none"> - Might have been ok on its own, making it a waste of resources <p>Keep Crappy turtle:</p> <ul style="list-style-type: none"> + improve survivorship of a turtle that probably wouldn't have made it on its own. + save more turtles overall. <ul style="list-style-type: none"> - waste of resources - this turtle makes it when it shouldn't have and it spreads its crappy gene to the pop. <input type="checkbox"/> Reference/explain: homeostasis, endothermy, ectothermy, metabolism, negative feedback loop </td> <td style="width: 50%; vertical-align: top; border: none;"> <p>Hypothesis</p> <input type="checkbox"/> State the hypothesis (if...then...because...) If a turtle flips over faster Then it is more fit Because it would be more adapted to avoid predation <input type="checkbox"/> Explanation of prediction-predict outcome </td> </tr> </table>					<p>Purpose:</p> <input type="checkbox"/> Restate the purpose Establish 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. <input type="checkbox"/> Give a recap of the experiment <ul style="list-style-type: none"> • hatchling turtles • flipped them • timed them to see how quickly they corrected their position (righting time) • recorded the data • look at data: <ul style="list-style-type: none"> ○ who flipped the fastest and the slowest <input type="checkbox"/> Specimen we studied and slight background info. Western pond turtle (<i>Emy/Clemmy/Actinemmys marmorata</i>) Only native turtle in ca (Pers. Com. Zannie Dallara) <input type="checkbox"/> Reference research *site sources 4 sources <input type="checkbox"/> What we hope to learn Establish a recommendation: Who released when and why. Release the Weak <div style="background-color: #FF00FF; padding: 2px;">Keep Most fit:</div> <ul style="list-style-type: none"> + Benefits pop making sure the best genes make it <ul style="list-style-type: none"> - Might have been ok on its own, making it a waste of resources <p>Keep Crappy turtle:</p> <ul style="list-style-type: none"> + improve survivorship of a turtle that probably wouldn't have made it on its own. + save more turtles overall. <ul style="list-style-type: none"> - waste of resources - this turtle makes it when it shouldn't have and it spreads its crappy gene to the pop. <input type="checkbox"/> Reference/explain: homeostasis, endothermy, ectothermy, metabolism, negative feedback loop	<p>Hypothesis</p> <input type="checkbox"/> State the hypothesis (if...then...because...) If a turtle flips over faster Then it is more fit Because it would be more adapted to avoid predation <input type="checkbox"/> Explanation of prediction-predict outcome
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Materials and Methods						

Homeostasis Lab 1

<p>Materials:</p> <ul style="list-style-type: none"> <input type="checkbox"/> List all materials <input type="checkbox"/> Identify independent variable <input type="checkbox"/> Identify dependent variable <input type="checkbox"/> Controls/constants 	<p>Method:</p> <ul style="list-style-type: none"> <input type="checkbox"/> List of procedure <li style="padding-left: 20px;">- Numbered is ok
Results & Conclusion	
<p>Results:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Observations: Qualitative and Quantitative some just layed there for a while before they made an effort used head and tail to flip <input type="checkbox"/> Include data table (Data table is labeled and units are noted) Online 	<p>Conclusion:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Restate your purpose <input type="checkbox"/> Use data to support conclusion We were able to identify faster and slower righting times. <input type="checkbox"/> Draw conclusions based on data 43, 25, 21 (see Table 1)= slow flipping time = release soon, don't waste resources on them rest were pretty speedy, especially 31, 35, <input type="checkbox"/> Explanation of observed phenomena righting time is a good measure because if a hatchling cant flip it wont survive. An upside down hatchling is an easy target for predators. <input type="checkbox"/> Explain why data does/does not confirm your hypothesis recap 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. <input type="checkbox"/> Compare findings to research *site sources reference article <input type="checkbox"/> Explain any inconsistencies Nope <input type="checkbox"/> Explain any sources of error iPhone issues, delay in timing <input type="checkbox"/> Make suggestions for improvement ...
Bibliography & Reference Material	
<ul style="list-style-type: none"> <input type="checkbox"/> Sources sited using <input type="checkbox"/> Minimum of 4 sources Example: turtles over 33°C¹. Or (1). 	<ul style="list-style-type: none"> <input type="checkbox"/> Include a figure (see Figure 1.) - reference both. <input type="checkbox"/> Include a data graphic (see Table 1.)
<p>Lab Report:</p> <div style="text-align: right; font-size: 1.5em; font-weight: bold;">/50pts</div> <div style="display: flex; justify-content: space-between; margin-top: 10px;"> A=45-50 B=46-40 C=39-35 D=34-30 F=29↓ </div>	