Biotech Laboratory Skills

Drosophila Investigation Findings

Research Summary for:

Drosophila culturing techniques Isolation, transfer and Sexing techniques Genetic Crosses

Task	Exceeds Proficiency	Demonstrates Proficiency	Nearly Meets Proficiency	Work does not Demonstrate Proficiency	Points Earned
Format	Work contains all format components and is extremely neat	Work : is neatly written is in the correct order is titled is properly dated	One component is missing	Two or more components are missing	
	7 Points	included headings 5 Points	3 Points	0 Points	
Purpose	Purposes are clearly stated using scientific terms, great insight	The purpose of each section is stated using scientific terms	Missing purpose statements and or scientific terminology	Missing two or more Components	missing
Focus Questions	17 points Questions are clearly stated using scientific terms, great insight	15 points Focus Questions for each section are stated using scientific terms	10 – 5 points Missing Focus Questions and or scientific terminology	4- 0 points Missing two or more Components	missing
Hypothesis	17 points Hypothesis statements are written correctly, great insight	15 points Hypothesis statements for each section are stated correctly using scientific terms	10 – 5 points Missing Hypothesis statements and or not written correctly	4-0 points Missing two or more Components	missing
	17 points	15 points	10 – 5 points	4-0 points	
Materials	Materials list follows format and is complete and detailed 12 points	Material list is complete and in three columns format 10 points	List is missing a few items and or not in correct format 3 column list 5 points	List is missing or incomplete 4-0 points	missing
Procedure	Procedure is extremely detailed and contains flow charts/diagrams	Procedure is: clearly/neatly written written in steps includes Safety Cautions is able to be reproduced	Procedure is missing one component	Missing two or more components	missing
	22 points	20 points	15 points	10 -0 Points	
Data INQ	Data is complete and additional data was	Data must include : data table for single pair cross data table for population cross Data presented includes: (5pts ea)	Missing one data table - 25 points		missing
W-10-6.1 W-10-7.5	presented; included Observations	<pre> dated entries fly counts: live/mortalities phenotypes expressed eye color sex identification</pre>	One component missing in a category or in more than one categories	Two or more components missing in one or more categories	
	47 Points	Overall observations 45 points	points earned	points earned	0 points
Data Table Format	Table was extremely neat and organized	Data Table is:titled neat and organized used a ruler to draw lines units used	Missing one criteria	Missing two criteria	Data is not in tables
	12 points	10 points	5 points	3 points	0 points

Data Analysis	Analysis is in-depth,	Analysis includes:	Missing one component	Missing two or more components.	missing
	logical, and supported	Discussions for each section	or		
INQ, FOF, POC	by data.	logical claims for each section		Claims are unclear,	
W-10-6.1		evidence and examples	evidence and claims require	not logical or not	
W-10-8.2 W-10-8.4		<pre> unexpected results possible explanations</pre>	more details	based on evidence	
	26-28 Points	25 Points	20- 15 Points	10 -5 Points	
				Missing two or more	
Conclusion	Conclusion	Conclusion:	Missing one component and	components	missing
INQ	demonstrates an in-	provided for each section	or		0
W-10-6.4	depth understanding.	answers the focus questions		incomplete	
W-10-7.4		supports or rejects hypothesis	is unclear/not logical/not		
W-10-8.1	Additional work was	is logical	supported by data	not linked to the	
	provided	supported by data		data collected	
	17 Points	25 points	20-15 Points	10-5 Points	
		Data is: (5 pts ea.)			
		is table format	Data is not presented in		missing
		has dated entries	table(s)	Data is incomplete:	-
Appendix A		observation on biotic factors	-10 points		
	Data is complete and	observations on abiotic factors		Data is missing three	
Pre-lab	additional data was		And	or more components	
Investigations	presented.	Data includes: (10 points ea.)	or		
		qualitative data	Components are missing		
		quantitative data			
	FF weight	diagrams/illustrations	uninte como d	un linte annual	
	55 points	50 points	points earned	points earned	
		· · ·			missing
Annondix B		Reflection provided			
Appendix B	Reflection was	information/comments on:	One component missing		
	detailed, provided	Drosophila's Life Cycle		_	
Laboratory	additional information.	sexing experience/technique	And	Two or more	
Reflection	Claims were backed	Problem encountered	Or	components missing	
	with evidence	educational value/ personal	information laste dataile		
		comments	information lacks details		
	22 points	20 points	15- 10 points	points earned	
		Work was turned in on time	Work was turned in 2-3 days	Work was turned in	
Deadlines			late	over 3 days late	
		15 points	5 points	0 points	

Possible Points Points 100% = 296 points = 285 points

Points Earned: ____/ 285

Grade: