



Scoring Guide Summary

Task-Life Cycle of a Mealworm

Question #	Webb Level	GE Assessed	Score Points	Key Element (Expected Correct Answer)	Content Areas Of Possible Misconception
1	2	S3-4:31	2	Student will be able to identify accurately the phases in the life cycle of a mealworm 1. Drawing with egg label 2. Drawing with larva label 3. Drawing with pupa label 4. Drawing with adult label	Some children believed that eggs and seeds are not alive. Larvae change into pupae which are dead and then we get butterflies.
2	2	S3-4:31	2	Any two of the following responses: <ul style="list-style-type: none"> • Both have four stages • Both are complete metamorphosis • Both have an egg, larva, pupa, adult • Both develop into insects • Any response that state that both have a similar stage (e.g., both have an egg stage) 	Larvae change into pupae which are dead and then we get butterflies.
3	2	S3-4:2	2	Expected (correct) student response: I predict that _____ because _____ —	Young children often thought that an animal grows or stretches in order to accommodate the food that it wants to it.
4	2	S3-4:4 bullet 1,3	2	Numbers of mealworms for each trial will add up to 5. Totals will be added correctly.	Children do not appear to recognize that the substances taken in the egg, are the material basis for growth.

5	2	S3-4:2	2	A response that says more mealworms went to the _____. (Any other appropriate response that reflects the data.)	
6	3	S3-4:3	2	<p>Any two of the following:</p> <ul style="list-style-type: none"> • Same number of mealworms • Same distance from food • Same starting place • Same amount of time • Same box • Same placement of box • Any realistic answer 	