



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	<p>Student will be able to identify accurately the phases in the life cycle of a mealworm</p> <ol style="list-style-type: none"> 1. Drawing with egg label 2. Drawing with larva label 3. Drawing with pupa label 4. Drawing with adult label 	<p>Some children believed that eggs and seeds are not alive. Larvae change into pupae which are dead and then we get butterflies.</p>
2	2	S3-4:31	2	<p>Any two of the following responses:</p> <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) 	<p>Larvae change into pupae which are dead and then we get butterflies.</p>
3	2	S3-4:2	2	<p>Expected (correct) student response: I predict that _____ because _____ —</p>	<p>Young children often thought that an animal grows or stretches in order to accommodate the food that it wants to it.</p>
4	2	S3-4:4 bullet 1,3	2	<p>Numbers of mealworms for each trial will add up to 5. Totals will be added correctly.</p>	<p>Children do not appear to recognize that the substances taken in the egg, are the material basis for growth.</p>

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 	