



**2015 Released Test Questions** 

# TEST ADMINISTRATOR INSTRUCTIONS

Copyright © 2015, Texas Education Agency. All rights reserved. Reproduction of all or portions of this work is prohibited without express written permission from the Texas Education Agency.

## Question 1

Grade	EOC	Subject	Biology	Question	1		
Reporting Category 2		Mechanisms of Genetics: The student will demonstrate an understanding of the mechanisms of genetics.					
Knowledge and Skill Statement Biology 6		The student knows the mechanisms of genetics, including the role of nucleic acids and the principles of Mendelian Genetics.					
Essence Statement		Recognizes that the structure of DNA determines the inherited traits in organisms.					
Prerequisite Skill		investigate and record some of the unique stages that insects undergo during their life cycle (2)					

## Question 2

Grade	EOC	Subject	Biology	Question	2			
Reporting Category 2		Mechanisms of Genetics: The student will demonstrate an understanding of the mechanisms of genetics.						
Knowledge and Skill Statement Biology 6		The student knows the mechanisms of genetics, including the role of nucleic acids and the principles of Mendelian Genetics.						
Essence Statement		Recognizes that the structure of DNA determines the inherited traits in organisms.						
Prerequisite Skill		investigate and compare how animals and plants undergo a series of orderly changes in their diverse life cycles such as tomato plants, frogs, and lady bugs (3)						

## Question 3

Grade	EOC	Subject	Biology	Question	3			
Reporting Category 2		Mechanisms of Genetics: The student will demonstrate an understanding of the mechanisms of genetics.						
Knowledge and Skill Statement Biology 6		The student knows the mechanisms of genetics, including the role of nucleic acids and the principles of Mendelian Genetics.						
Essence Statement		Recognizes that the structure of DNA determines the inherited traits in organisms.						
Prerequisite Skill		explore, illustrate, and compare life cycles in living organisms such as butterflies, beetles, radishes, or lima beans (4)						

## Question 4

Grade	EOC	Subject	Biology	Question	4		
Reporting Category 2		Mechanisms of Genetics: The student will demonstrate an understanding of the mechanisms of genetics.					
Knowledge and Skill Statement Biology 6		The student knows the mechanisms of genetics, including the role of nucleic acids and the principles of Mendelian Genetics.					
Essence Statement		Recognizes that the structure of DNA determines the inherited traits in organisms.					
Prerequisite Skill		describe the differences between complete and incomplete metamorphosis of insects (5)					

- Present Stimulus 1.
- Direct the student to Stimulus 1. Communicate: This diagram shows the life cycle of a grasshopper.
- Communicate the text in the life cycle.
- Communicate: Find the life cycle of the grasshopper.



Scoring Instructions				
Student Action		Test Administrator Action		
If the student finds the life cycle of the grasshopper,	-	mark <b>A</b> for question 1 and move to question 2.		
If the student does not find the life cycle of the grasshopper,		<ul> <li>remove the stimulus;</li> <li>wait at least five seconds; and</li> <li>replicate the initial presentation instructions.</li> </ul>		
After the five-second wait time, if the student finds the life cycle of the grasshopper,		mark <b>B</b> for question 1 and move to question 2.		
After the five-second wait time, if the student does not find the life cycle of the grasshopper,		mark <b>C</b> for question 1 and move to question 2.		

- Present Stimulus 2a and 2b.
- Direct the student to Stimulus 2a. Communicate: Here is the life cycle of a grasshopper.
- *Direct* the student to the empty box in Stimulus 2a. *Communicate:* **A stage in the life cycle is missing.**
- Direct the student to each answer choice in Stimulus 2b. Communicate the text in each answer choice.
- Communicate: Find the stage that is missing from the life cycle.



Scoring Instructions				
Student Action		Test Administrator Action		
If the student finds the adult grasshopper in Stimulus 2b,	-	mark <b>A</b> for question 2 and move to question 3.		
If the student does not find the adult grasshopper in Stimulus 2b,		<ul> <li>model the desired student action by finding the adult grasshopper in Stimulus 2b and <i>communicate</i> "This is the adult stage that is missing from the life cycle of the grasshopper"; and</li> <li>replicate the initial presentation instructions.</li> </ul>		
After teacher modeling, if the student finds the adult grasshopper in Stimulus 2b,	-	mark <b>B</b> for question 2 and move to question 3.		
After teacher modeling, if the student does not find the adult grasshopper in Stimulus 2b,	-	mark <b>C</b> for question 2 and move to question 3.		

- Present Stimulus 3a and 3b.
- *Direct* the student to the life cycles in Stimulus 3a. *Communicate:* Here are life cycles of two different organisms.
- *Direct* the student to the life cycle of the ladybug. *Communicate:* This is the life cycle of a ladybug: egg, larva, pupa, adult.
- *Direct* the student to the life cycle of the chigger. *Communicate:* This is the life cycle of a chigger: egg, nymph, adult.
- *Direct* the student to each answer choice in Stimulus 3b. *Communicate* the text in each answer choice.
- Communicate: Find the sentence that tells what is the same about both life cycles.



Scoring Instructions				
Student Action		Test Administrator Action		
If the student finds the sentence "They both have an egg stage,"		mark <b>A</b> for question 3 and move to question 4.		
If the student does not find the sentence "They both have an egg stage,"	-	<ul> <li>provide one of these allowable teacher assists to the student:</li> <li>Highlight the stages that are the same in both life cycles. OR</li> <li>Have the student tell about each stage for both life cycles.</li> <li>Replicate the initial presentation instructions.</li> </ul>		
After the selected teacher assistance, if the student finds the sentence "They both have an egg stage,"		mark <b>B</b> for question 3 and move to question 4.		
After the selected teacher assistance, if the student does not find the sentence "They both have an egg stage,"		mark <b>C</b> for question 3 and move to question 4.		

- Present Stimulus 4a and 4b.
- *Direct* the student to Stimulus 4a. *Communicate:* Here are life cycles that show complete stages of metamorphosis.
- Communicate the stages for each life cycle.
- Direct the student to each answer choice in Stimulus 4b. Communicate the text in each answer choice.
- Communicate: Find the sentence that describes complete metamorphosis.



Scoring Instructions				
Student Action		Test Administrator Action		
If the student finds the sentence "The adult stage looks different from the other stages,"	-	mark <b>A</b> for question 4.		
If the student does not find the sentence "The adult stage looks different from the other stages,"	-	replicate the initial presentation instructions.		
After the teacher repeats the instructions, if the student finds the sentence "The adult stage looks different from the other stages,"	-	mark <b>B</b> for question 4.		
After the teacher repeats the instructions, if the student does not find the sentence "The adult stage looks different from the other stages,"	-	mark <b>C</b> for question 4.		