

**Answer Key**  
**Desert Stories: Yucca and Yucca Moth Life Cycles and Mutualism**

**Day 1 Video: Mystery Object**

1. Science Journal Entry Question 1: Write three adjectives to describe your mystery object. Your adjectives should describe the size or weight, the color, and the texture, or what your object feels like.  
*Possible answers: small, light, yellow, rough, scratchy*
2. Edpuzzle Question: Type the favorite adjective that you came up with to describe your object in the space provided.  
*Possible answers: There are many possible answers. What is important is that students chose an adjective.*
3. Science Journal Entry Question 2: Measure your mystery object and report it in your science journal.  
*Possible Answers: Most seed pods will be between 1 - 4 inches long.*
4. Edpuzzle Question: Compare your mystery object to the length data set, then answer this question: Is your mystery object smaller, larger, or the same as most other mystery objects?  
*Possible answers: Students will answer based on the measurements of their yucca seed pod.*
5. Edpuzzle Question: What adjective describes what the moths look like?  
Silver-white? Cave? Fold? Important?  
*Answer: silver-white*
6. Edpuzzle Question: What adjective does not describe part of the yucca flower? Golden?  
Female? Six? Thick?  
*Answer: female*
7. Edpuzzle Question: What verb describes what the moth's young do to the seeds? Packs?  
Repeats? Bring? Eat?  
*Answer: eat*
8. Edpuzzle Question: What verb describes what the moth larvae do in the winter? Shares?  
Burrow? Wait? Make?  
*Answer: wait*
9. Science Journal Entry Page 3: Write as many questions as you can think of about the yucca or yucca moth.  
*Possible answers: Students will answer based on their questions and observations.*

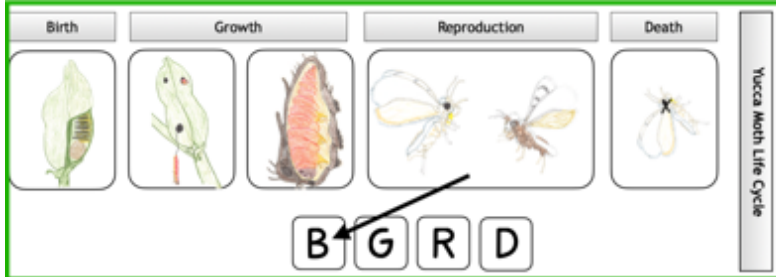
**Day 2 Video: Life Cycles**

1. Science Journal Entry Page 4: Label pictures from one to five in the order you think they go, representing birth through death.  
*Possible answers: This is an opportunity for students to think about what they already know. There are no wrong answers.*

2. Edpuzzle Question: If butterflies are eggs during their birth stage, what do moths look like during their birth stage? Baby? Eggs? Joey? Seeds?

*Answer: eggs*

3. Complete yucca moth life cycle diagram.



B = Birth

G = Growth

R = Reproduction

D = Death

N = nacimiento

C = crecimiento

R = reproducción

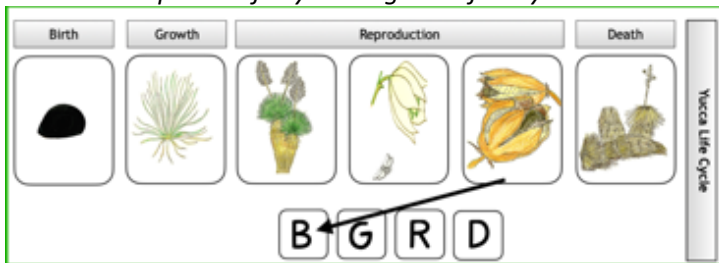
M = muerte

4. Edpuzzle Question: What does a plant look like during the birth state of its life cycle? Baby? Eggs? Joey? Seeds?

*Answer: seeds*

5. Edpuzzle Question: Complete the yucca life cycle diagram.

*Answer: completed life cycle diagram of the yucca*



6. Science Journal Entry page 5: List two things you notice that are the same in both life cycles, and two things you notice are different about the life cycles.

*Possible answers:*

*Same: both life cycles include B, G, R, and D stages; both life cycles begin with the birth of a new organism from reproduction*

*Different: yucca life cycle has more steps in the reproduction stage; the yucca moth has more steps in the growth stage*

### Day 3 Video: Insect Hole Investigation

1. Science Journal Entry page 6: Yucca seed pod observations.

Possible answers: Students will answer based on their observations. Students may notice the insect holes and cracks in the seed pod by holding the seed pod up in front of a window. Students are asked to use adjectives.

2. Edpuzzle Question: Is this hole made by the yucca moth larvae?

Answer: Yes! This is an insect hole made by the yucca moth larvae.

3. Science Journal Entry page 7: I think the most common number of holes in yucca seed pods is \_\_\_\_\_.

Possible Answer: Students select what they think is the most common number of holes in yucca seed pods.

4. Science Journal Entry page 7: Students complete the data table.

Possible Answers: data table should look like this, with student's data in the last row.

Scientist	Number of Holes in their Seed Pod
Ms. Em	2
Dr. H.	6
Mr. Ryan	9
My _____	

### Canvas Quiz Questions and Answers

1. How many seed pods had 7 or more insect holes?

Answer: 2

2. How many seed pods had 0 insect holes?

Answer: 3

3. How many more seed pods had 2 insect holes than 6 insect holes?

Answer: 8

4. What number of insect holes was found the least often?

Answer: 5 and 6

5. What number of insect holes was found the most often?

Answer: 2

### Insect Hole Data

Holes Per Seed Pod	0	1	2	3	4	5	6	7 or more
Number of Seed Pods	3	4	9	6	4	1	1	2

