



Unit: The Characteristics of Life

Lesson Plan 8: Characteristic 5: Organisms Grow and Develop

Objective(s):

Students will be able to:

- Define key terms (growth, development, metamorphosis)
- Describe ways in which organisms grow and develop

Materials:

- Video from Discovery Education: (Subscription Required)
Incomplete Metamorphosis. Peter Matulavich Productions. 2001. Discovery Education. 16 December 2009. <<http://streaming.discoveryeducation.com/>>.

Anticipatory Set:

The fifth characteristic of living organisms is that they all grow and develop. Different organisms experience growth and development in different ways. Let's explore some ways in which organisms grow and develop.

Lesson:

- I. PowerPoint presentation
Have students take notes.
- II. Video

Lab Activity:

Revert to the Bean lab. Draw and describe the changes the bean plant made after germination. Explain how these changes show the growth and development of the plant.

Evaluation:

- Lab observations
- Quiz on vocabulary



Characteristics and Classification of Organisms Part 7

Characteristic 5: Organisms grow and develop

Growth-

- the increase in body mass or formation of new body structures

Development-

- all the changes that takes place during an organism's life cycle

Metamorphosis-

- series of changes in body structure from egg to adult

Complete metamorphosis-

- Adult organism looks little like its youth counterpart.

Incomplete metamorphosis-

- Adult organism looks similar, but larger, than youth counterpart.



Name: _____

Date: _____

Quiz: Organisms Grow and Develop*Direction: Use the word bank to fill in the blanks.*

Growth	Development
Metamorphosis	Complete
Incomplete	

(1) _____ describes all the changes that an organism undergoes throughout its life cycle. Some organisms simply experience

(2) _____ as they increase their body mass, while other organisms undergo (3) _____ in which their body structures actually change.

Insects that undergo (4) _____ metamorphosis look little like their young counterparts, while other insects that undergo (5) _____ metamorphosis look similar to their younger but smaller counterparts.



Name: _____

Date: _____

Quiz Answers: Organisms Grow and Develop

Direction: Use the word bank to fill in the blanks.

Growth	Development
Metamorphosis	Complete
Incomplete	

(1) **Development** describes all the changes that an organism undergoes throughout its life cycle. Some organisms simply experience

(2) **Growth** as they increase their body mass, while other organisms undergo (3) **Metamorphosis** in which their body structures actually change.

Insects that undergo (4) **Complete** metamorphosis look little like their young counterparts, while other insects that undergo (5) **Incomplete** metamorphosis look similar to their younger but smaller counterparts.