Name:________________________

Life Cycles

Part 1:

Exploring an Organism’s Life

1) What organism did you receive?________________________________

   Talk with your group about how your organism changes over its lifetime.

2) Draw and label your organism at 4 to 6 different stages in its life. This will be your model.

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Comparing the size of your organism over its lifetime:

3) Does the organism stay the same size over its lifetime?  Yes  No
   Circle One

4) Did the organism change size for every stage of its life?  Yes  No
   Circle One
   If No: Two stages where the organism stays the same size are: stage ___ and stage ___.

5) Two stages in which the organism changes size are: stage ___ and stage ___. (circle the stage that is bigger)

Comparing Similar Organisms
(Your teacher will assign you a partner group to share with.)

6) What organisms did your partner group receive?___________________

Compare the sizes of your organisms:

7) A/an __________________ is smaller than / bigger than / the same as _____________________.
   Your Organism  Circle One  Partner Group’s Organism

Have one group share what they drew for the stages in their model (question 2).

Have the other group share what they drew for their stages in their model (question 2).

8) List similarities between your two models: (you do not have to fill out all lines)
   a) __________________________________________________________
   b) __________________________________________________________
   c) __________________________________________________________
9) List **differences** between your two models: (you do not have to fill out all lines)
   a) ___________________________________________________
   b) ___________________________________________________
   c) ___________________________________________________

10) Did the **Partner Group’s Organism** change size for every stage of its life?  
    Yes  No  
    Circle One  

If No: Two stages where the organism **stays the same size** are: stage ___ and stage ___.

11) Two stages in which a/an **Partner Group’s Organism** changes size are stage ___ and stage ___. (circle the stage that is bigger)

12) List if there is anything you would like to change or add to your model (question 2): (you do not have to fill out all lines)
   a) ___________________________________________________
   b) ___________________________________________________
   c) ___________________________________________________

Part 2:

**Class Discussion**
*Have a class discussion on how to compare plants and animals.

**Comparing Different Organisms**
(Your teacher will assign you a second partner group to share with.)

13) What organism did your partner group receive?  
    **Partner Group’s Organism**

14) A/an **Your Organism** is smaller than / bigger than / the same as a/an **Partner Group’s Organism**.  
    Circle One
Have one group share what they drew for the stages in their model (question 2).

Have the other group share what they drew for their stages in their model (question 2).

15) List similarities between your two models: (you do not have to fill out all lines)
   a) ___________________________________________________
   b) ___________________________________________________
   c) ___________________________________________________

16) List differences between your two models: (you do not have to fill out all lines)
   a) ___________________________________________________
   b) ___________________________________________________
   c) ___________________________________________________

17) Did the __________________________ change size for every stage of its life? Yes ______ No ______
    Circle One

    If No: Two stages where the organism stays the same size are: stage ___ and stage ___.

18) Two stages in which a/an _______________________ changes size are
    stage ___ and stage ___. (circle the stage that is bigger)

19) List if there is anything you would like to change or add to your model (question 2): (you do not have to fill out all lines)
   a) ___________________________________________________
   b) ___________________________________________________
   c) ___________________________________________________
Part 3:
Life Cycle Video

20) What organism is in the video?

__________________________________________

21) At the beginning of the video the organism was a

_____________________, this is known as

_________________________________________. Then the organism

________________________. Next the organism

______________________, and these contained __________________
which would fall to the ground and __________________. This is known
as ______________________. At the end the organism

____________________

22) List similarities between the video and your model:
(you do not have to fill out all lines)
  a) _______________________________________________________________________
  b) _______________________________________________________________________
  c) _______________________________________________________________________

23) List differences between the video and your model:
(you do not have to fill out all lines)
  a) _______________________________________________________________________
  b) _______________________________________________________________________
  c) _______________________________________________________________________

24) In question 21 circle the key stages of life that the organism went
    through.
25) Draw and label the sunflower at 4 to 6 different stages in its life. Make sure to include the words: birth, growth, reproduction, death, and any other key words to designate stages of life.

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26) List if there is anything you would like to change or add to your model (question 2): (you do not have to fill out all lines)

   a) _____________________________________________________________
   
   b) _____________________________________________________________
   
   c) _____________________________________________________________
Revising Your Model

27) What organism did you receive?

28) Highlight and read answers for questions 12, 19, and 26.
   Revise your model by drawing and labeling your organism at 4 to 6 different stages in its life. Make sure to include the words: birth, growth, reproduction, death, and any other key words to designate stages of life.

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Assign a stage number(s) to each person in your group and write their name and the stage number(s) below.

- ____________________________________________‘s stage number(s): _______
  Name
- ____________________________________________‘s stage number(s): _______
  Name
- ____________________________________________‘s stage number(s): _______
  Name
- ____________________________________________‘s stage number(s): _______
  Name

Then share your model with the rest of the class.
Part 4:  
*Class Model*  
29) As a class, generate a model that could be used for any organism to show what happens during their life cycle.

---

Part 5:  
*Life Cycle Journal*  
Get your Life Cycle Journal from your teacher and fill it out for the next 8 weeks.
Part 6:  
Data  
Class Plant Graphs of Length and Height

How a Fast Plant’s **Length** Changes with Time

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**Plant Length Summary:**  
*Fill out at the end of life cycle.*  

Max Length: __________  
Min Length: __________  

Over the organism’s life it had a length difference of:

How a Fast Plant’s **Height** Changes with Time

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**Plant Height Summary:**  
*Fill out at the end of life cycle*  

Max Height: __________  
Min Height: __________  

Over the organism’s life it had a height difference of:
**Class Animal Graphs of Length and Height**

**How a Silkworm's Length Changes with Time**

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**Animal Length Summary:**
*Fill out at the end of life cycle*

Max Length: __________

Min Length: __________

Over the organism's life it had a length difference of: __________

**How a Silkworm's Height Changes with Time**

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**Animal Height Summary:**
*Fill out at the end of life cycle.

Max Height: __________

Min Height: __________

Over the organism's life it had a height difference of: __________
Analyzing Data

Plant Life Cycle

30) Label the following on the fast plant height graph: birth, growth, flower, reproduce, and die.

31) The stage in which the organism was the **longest** was:

   birth / growth / reproduction / death

   \[
   \text{Circle One}
   \]

32) The stage in which the organism was the **shortest** was:

   birth / growth / reproduction / death

   \[
   \text{Circle One}
   \]

33) The stage in which the organism was the **tallest** was:

   birth / growth / reproduction / death

   \[
   \text{Circle One}
   \]

34) The stage in which the organism was the **shortest** was:

   birth / growth / reproduction / death

   \[
   \text{Circle One}
   \]

Animal Life Cycles

35) Label the following on the silkworm length graph: birth, growth, form cocoon, moth, reproduce, and die.

36) The stage in which the organism was the **longest** was:

   birth / growth / reproduction / death

   \[
   \text{Circle One}
   \]

37) The stage in which the organism was the **shortest** was:

   birth / growth / reproduction / death

   \[
   \text{Circle One}
   \]

38) The stage in which the organism was the **tallest** was:

   birth / growth / reproduction / death

   \[
   \text{Circle One}
   \]

39) The stage in which the organism was the **shortest** was:

   birth / growth / reproduction / death

   \[
   \text{Circle One}
   \]
Lesson Reflection

40) What did you learn about the life cycles of plants and animals?

_____________________________________________________________________

_____________________________________________________________________

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41) Draw a picture of the life cycle of a plant or an animal of your choice and label key stages in life.