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**.

1	2	3
4	5	6

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

a/an _____.
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 _____ change size for every stage of its life? Yes No
Partner Group's Organism
Circle One

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

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

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

Compare the sizes of your organisms:

14) A/an _____ is smaller than / bigger than / the same as
Your Organism
Circle One

a/an _____.
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).

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
Partner Group's Organism
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)
Partner Group's Organism

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)

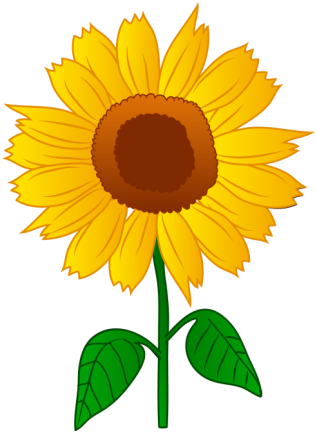
a) _____

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.

1	2	3
4	5	6

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) <u>Highlight and read answers for questions 12, 19, and 26.</u>
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.

1	2	3
4	5	6

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

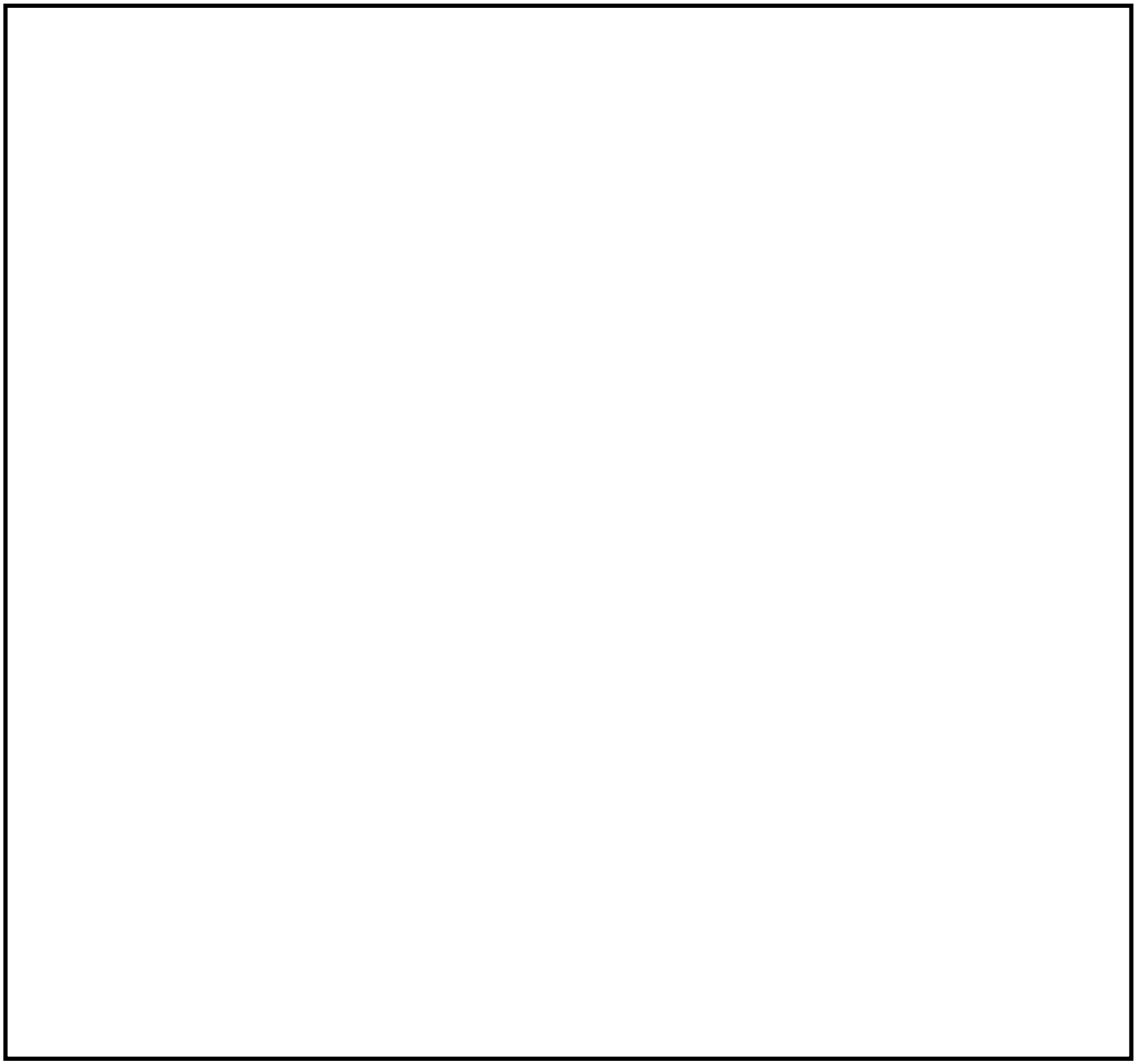
_____'s stage number(s): _____
Name

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.

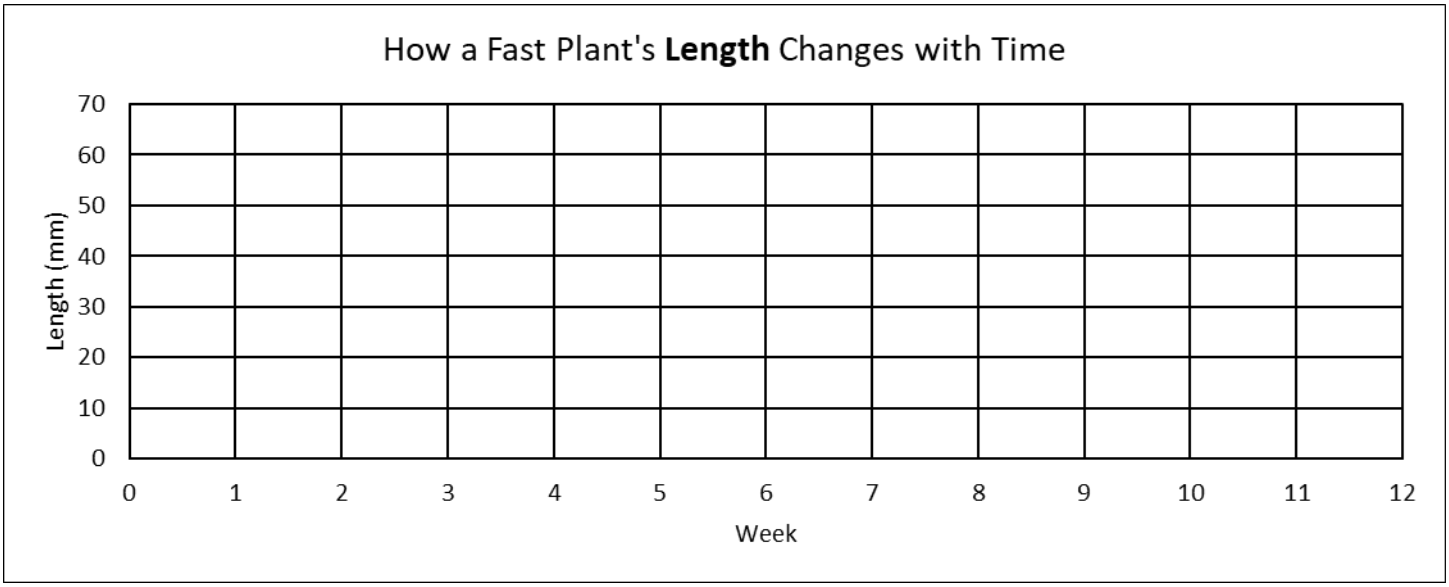


Part 5:

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*

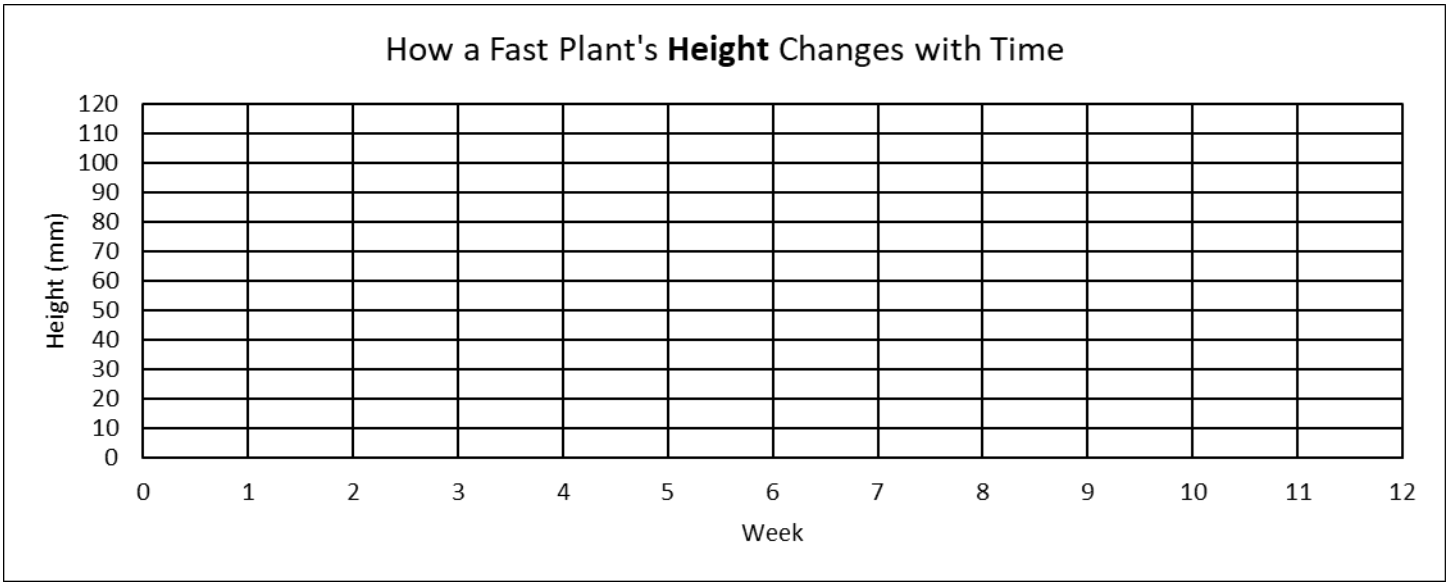


Plant Length Summary:
**Fill out at the end of life cycle.*

Max Length:_____

Min Length: _____

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



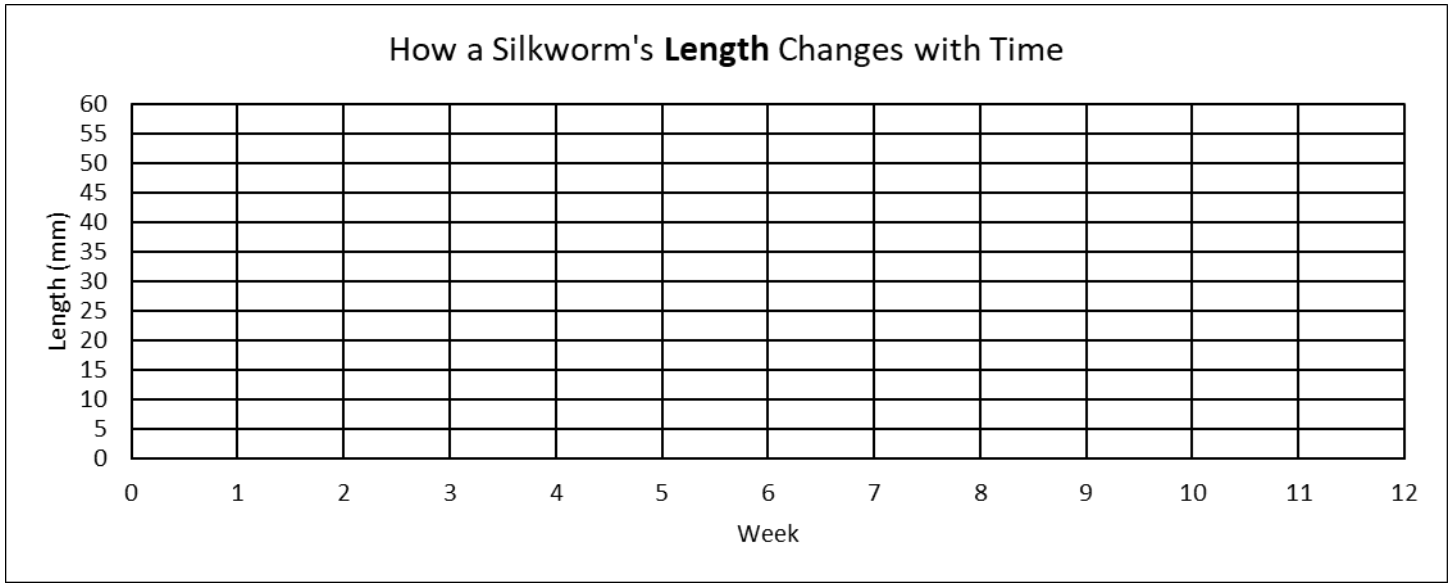
Plant Height Summary:
**Fill out at the end of life cycle*

Max Height:_____

Min Height: _____

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

*Class **Animal** Graphs of Length and Height*

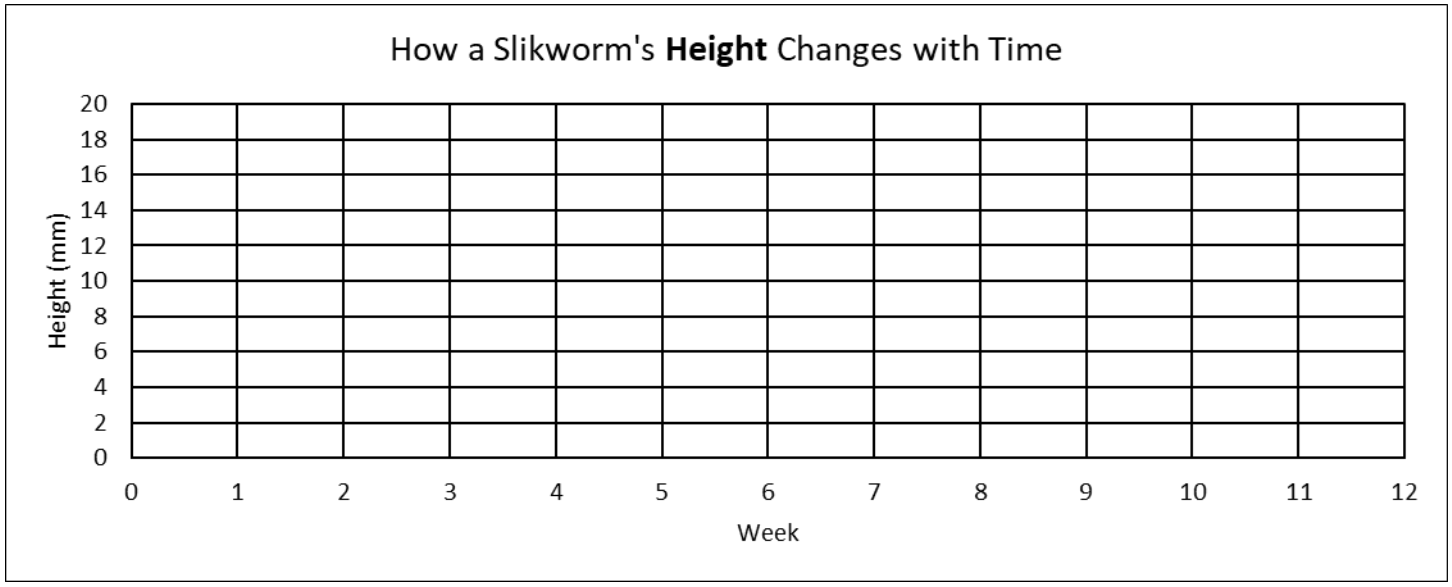


Animal Length Summary:
**Fill out at the end of life cycle*

Max Length:_____

Min Length: _____

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



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
Circle One

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

birth / growth / reproduction / death
Circle One

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

birth / growth / reproduction / death
Circle One

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

birth / growth / reproduction / death
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
Circle One

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

birth/ growth / reproduction / death
Circle One

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

birth / growth / reproduction / death
Circle One

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

birth / growth / reproduction / death
Circle One

Lesson Reflection

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

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