



Name _____

Drawing Life Cycles

Complete Metamorphosis

1. _____  2. _____

What are these young insects called?

Nymphs Larvae

Name three examples of insects who have this life stage

1. _____

2. _____

3. _____

Draw a life cycle for one of the insects you named above. Label your diagram!



4. _____

3. _____



Incomplete Metamorphosis

1. _____  2. _____

What are these young insects called?

Nymphs Larvae

Name three examples of insects who have this life stage

1. _____

2. _____

3. _____

Draw a life cycle for one of the insects you named above. Label your diagram!



4. _____

3. _____





Name _____

Metamorphosis

Insects go through metamorphosis. We looked at examples of those that go through complete and incomplete versions.

1. How are complete and incomplete metamorphosis similar?

2. How are complete and incomplete metamorphosis different?

3. What do you think makes insects that go through complete metamorphosis so **successful**?

4. Both mosquitoes and butterflies go through complete metamorphosis. How are their larvae different from each other? (Hint: where do they live?)



Name _____

Relate to You

Growing is a part of life. Everything that is living starts out small and grows over time. Think about how you grow over time. The diagrams that show different stages of growth are called life cycles.

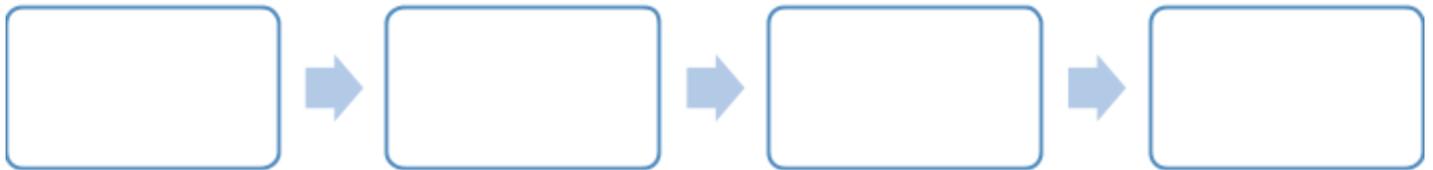


5. If you had to make a life cycle for yourself, what stages would you include?

6. Think about an insect and how it grows. How would an insect life cycle be different from yours?

7. Is our life cycle more like incomplete or complete metamorphosis? Why do you think so?

8. Look back on all the life cycles: both insects and your own. Can you see a pattern in all the life cycles?



9. Summarize the life cycle in one sentence to describe the pattern you drew above.



Name _____

Complete Metamorphosis

What are these young insects called? **Larvae**

Name three examples of insects who have this life stage. **Caterpillar, butterfly, grub, beetle, bee, ant, fly**

Life Cycle: **Egg, Larva, Pupa, Adult**

Incomplete Metamorphosis

What are these young insects called? **Nymph**

Name three examples of insects who have this life stage. **Stink bug, praying mantis, walking stick, cockroach**

Life Cycle: **Egg, Nymph, Adult**

Metamorphosis

1. How are complete and incomplete metamorphosis similar?
answers may vary (start as eggs, end as adults, molt in between life stages)
2. How are complete and incomplete metamorphosis different?
answers may vary (complete has the chrysalis life stage)
3. What do you think makes insects that go through complete metamorphosis so successful?
answers may vary (ex: immatures feed on different food source which means that they do not compete with the adults)
4. Both mosquitoes and butterflies go through complete metamorphosis. How are their larvae different from each other? (Hint: where do they live?)
mosquitoes are aquatic (live in the water) as larvae and butterflies are terrestrial (live on the land) as larvae.

Relate to You

1. If you had to make a life cycle for yourself, what stages would you include?
baby, pre-teen, teen, adult, elder
2. Think about an insect and how it grows. How would an insect life cycle be different from yours?
answers may vary (insects molt in between stages)
3. Is our life cycle more like incomplete or complete metamorphosis? Why do you think so?
answers may vary (incomplete because we do not undergo a pupa and our immature stage is very similar to the adult stage)
4. Look back on all the life cycles: both insects and your own. Can you see a pattern in all the life cycles?
answers may vary
5. Summarize the life cycle in one sentence to describe the pattern you drew above.
answers may vary (Animals start as an egg and as they grow they mature into adults)