

Influence of day/night exposure on growth of the Corn Earworm:

Question: Will being in night-time conditions 24 hours a day significantly decrease the time of the corn earworm life cycle compared to normal day and night conditions?

Hypothesis: If the corn earworms are left in 24 hour night-time conditions, they will have a faster life cycle than in day and night conditions.

Procedures:

- 1) Get corn earworms from Texas A&M University.
- 2) Leave half of the corn earworms on a table in the classroom with normal day and night conditions.
- 3) Put the other half of the corn earworms in only night conditions (except for observation times).
- 4) Daily observations and/or measurements were taken and daily journal entries were made. Make results chart for "Egg hatched to larva," "Larva to pupa," and "Pupa to moth."

Specimen Development Chart: 24 hour Night-time

| Property | Egg Stage | Larval Stage | Pupa stage | Adult stage |
|-------------|-----------|--------------|------------|-------------|
| Length | | | | |
| Age in Days | | | | |
| Color | | | | |
| Diet | | | | |
| Wingspan | | | | |

Specimen Development Chart: Day and Night time

| Property | Egg Stage | Larval Stage | Pupa stage | Adult stage |
|-------------|-----------|--------------|------------|-------------|
| Length | | | | |
| Age in Days | | | | |
| Color | | | | |
| Diet | | | | |
| Wingspan | | | | |

Daily Observations from first instar to pupa stage and then adult stage:

Day 1:

Day 2:

Day 3:

Continue daily observations: