



## Fruit Fly Lab

Names:

Period:

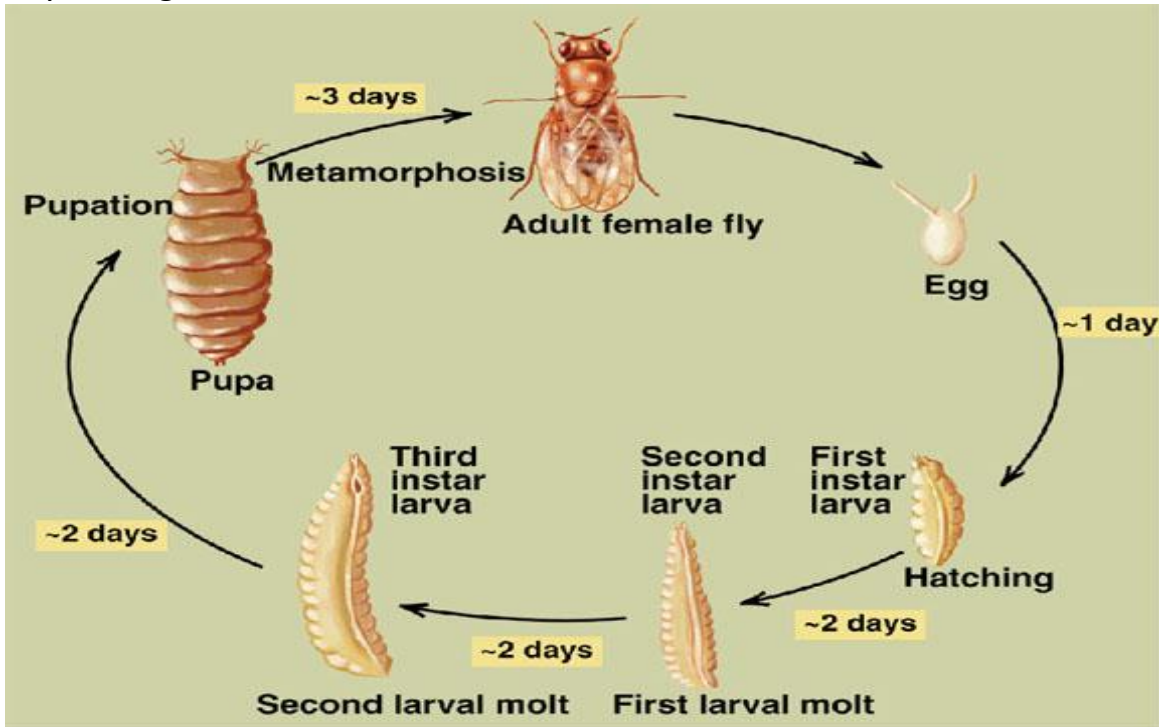
In this lab you will work with *Drosophila Melanogaster*, the common fruit fly. You will be given between 8-20 fruit flies in a test tube. Over time you will see the successive generations and how the traits of their parents have been passed on to them. Mr. Hanson will have his website up on the SmartBoard and we will investigate the genetics behind the fruit fly. You will be using your computer, our network drive, and Mr. Hanson's website.



1. Day One Observations: You will be given your flies today. You will need to label your test tube with the names of your team. You will need to identify the following using a hand lens:
  - a. Today's Date:
  - b. Number of flies:
  - c. Types of wings:
  - d. Color of Eyes:
  - e. Body types:
  - f. Body Color:
  - g. Short or long:
  - h. Types of heads:
  - i. Number of Eggs present:
  - j. Number of First Stage Instar Larva:

- k. Number of Second Stage Instar Larva:
- l. Number of Third Stage Instar Larva:
- m. Number of Pupa:
- n. General Observations:

2. Life Cycle diagram:



3. Day Two Observations:

- a. Today's Date:
- b. Number of flies:
- c. Types of wings:
- d. Color of Eyes:
- e. Body types:
- f. Body Color:
- g. Short or long:
- h. Types of heads:
- i. Number of Eggs present:
- j. Number of First Stage Instar Larva:
- k. Number of Second Stage Instar Larva:
- l. Number of Third Stage Instar Larva:
- m. Number of Pupa:
- n. General Observations:

4. Day Three Observations:

- a. Today's Date:
- b. Number of flies:
- c. Types of wings:
- d. Color of Eyes:
- e. Body types:
- f. Body Color:
- g. Short or long:
- h. Types of heads:
- i. Number of Eggs present:
- j. Number of First Stage Instar Larva:
- k. Number of Second Stage Instar Larva:
- l. Number of Third Stage Instar Larva:
- m. Number of Pupa:
- n. General Observations:

5. Day Four Observations:

- a. Today's Date:
- b. Number of flies:
- c. Types of wings:
- d. Color of Eyes:
- e. Body types:
- f. Body Color:
- g. Short or long:
- h. Types of heads:
- i. Number of Eggs present:
- j. Number of First Stage Instar Larva:
- k. Number of Second Stage Instar Larva:
- l. Number of Third Stage Instar Larva:
- m. Number of Pupa:
- n. General Observations:

6. Day Five Observations:

- a. Today's Date:
- b. Number of flies:
- c. Types of wings:
- d. Color of Eyes:
- e. Body types:
- f. Body Color:
- g. Short or long:
- h. Types of heads:

- i. Number of Eggs present:
- j. Number of First Stage Instar Larva:
- k. Number of Second Stage Instar Larva:
- l. Number of Third Stage Instar Larva:
- m. Number of Pupa:
- n. General Observations:

7. Day Six Observations:

- a. Today's Date:
- b. Number of flies:
- c. Types of wings:
- d. Color of Eyes:
- e. Body types:
- f. Body Color:
- g. Short or long:
- h. Types of heads:
- i. Number of Eggs present:
- j. Number of First Stage Instar Larva:
- k. Number of Second Stage Instar Larva:
- l. Number of Third Stage Instar Larva:
- m. Number of Pupa:
- n. General Observations:

8. Day Seven Observations:

- a. Today's Date:
- b. Number of flies:
- c. Types of wings:
- d. Color of Eyes:
- e. Body types:
- f. Body Color:
- g. Short or long:
- h. Types of heads:
- i. Number of Eggs present:
- j. Number of First Stage Instar Larva:
- k. Number of Second Stage Instar Larva:
- l. Number of Third Stage Instar Larva:
- m. Number of Pupa:
- n. General Observations:

9. Day Eight Observations:

- a. Today's Date:
- b. Number of flies:
- c. Types of wings:
- d. Color of Eyes:
- e. Body types:
- f. Body Color:
- g. Short or long:
- h. Types of heads:
- i. Number of Eggs present:
- j. Number of First Stage Instar Larva:
- k. Number of Second Stage Instar Larva:
- l. Number of Third Stage Instar Larva:
- m. Number of Pupa:
- n. General Observations:

#### 10. Day Nine Observations:

- a. Today's Date:
- b. Number of flies:
- c. Types of wings:
- d. Color of Eyes:
- e. Body types:
- f. Body Color:
- g. Short or long:
- h. Types of heads:
- i. Number of Eggs present:
- j. Number of First Stage Instar Larva:
- k. Number of Second Stage Instar Larva:
- l. Number of Third Stage Instar Larva:
- m. Number of Pupa:
- n. General Observations:

#### 11. Day Ten Observations:

- a. Today's Date:
- b. Number of flies:
- c. Types of wings:
- d. Color of Eyes:
- e. Body types:
- f. Body Color:
- g. Short or long:
- h. Types of heads:

- i. Number of Eggs present:
- j. Number of First Stage Instar Larva:
- k. Number of Second Stage Instar Larva:
- l. Number of Third Stage Instar Larva:
- m. Number of Pupa:
- n. General Observations:

12. Day Eleven Observations:

- a. Today's Date:
- b. Number of flies:
- c. Types of wings:
- d. Color of Eyes:
- e. Body types:
- f. Body Color:
- g. Short or long:
- h. Types of heads:
- i. Number of Eggs present:
- j. Number of First Stage Instar Larva:
- k. Number of Second Stage Instar Larva:
- l. Number of Third Stage Instar Larva:
- m. Number of Pupa:
- n. General Observations:

13. Day Eight Observations:

- a. Today's Date:
- b. Number of flies:
- c. Types of wings:
- d. Color of Eyes:
- e. Body types:
- f. Body Color:
- g. Short or long:
- h. Types of heads:
- i. Number of Eggs present:
- j. Number of First Stage Instar Larva:
- k. Number of Second Stage Instar Larva:
- l. Number of Third Stage Instar Larva:
- m. Number of Pupa:
- n. General Observations:

14. Day Twelve Observations:

- a. Today's Date:
- b. Number of flies:
- c. Types of wings:
- d. Color of Eyes:
- e. Body types:
- f. Body Color:
- g. Short or long:
- h. Types of heads:
- i. Number of Eggs present:
- j. Number of First Stage Instar Larva:
- k. Number of Second Stage Instar Larva:
- l. Number of Third Stage Instar Larva:
- m. Number of Pupa:
- n. General Observations:

#### 15. Day Thirteen Observations:

- a. Today's Date:
- b. Number of flies:
- c. Types of wings:
- d. Color of Eyes:
- e. Body types:
- f. Body Color:
- g. Short or long:
- h. Types of heads:
- i. Number of Eggs present:
- j. Number of First Stage Instar Larva:
- k. Number of Second Stage Instar Larva:
- l. Number of Third Stage Instar Larva:
- m. Number of Pupa:
- n. General Observations:

#### 16. Day Fourteen Observations:

- a. Today's Date:
- b. Number of flies:
- c. Types of wings:
- d. Color of Eyes:
- e. Body types:
- f. Body Color:
- g. Short or long:
- h. Types of heads:

- i. Number of Eggs present:
- j. Number of First Stage Instar Larva:
- k. Number of Second Stage Instar Larva:
- l. Number of Third Stage Instar Larva:
- m. Number of Pupa:
- n. General Observations:

17. Day Fifteen Observations:

- a. Today's Date:
- b. Number of flies:
- c. Types of wings:
- d. Color of Eyes:
- e. Body types:
- f. Body Color:
- g. Short or long:
- h. Types of heads:
- i. Number of Eggs present:
- j. Number of First Stage Instar Larva:
- k. Number of Second Stage Instar Larva:
- l. Number of Third Stage Instar Larva:
- m. Number of Pupa:
- n. General Observations:

18. Day Sixteen Observations:

- a. Today's Date:
- b. Number of flies:
- c. Types of wings:
- d. Color of Eyes:
- e. Body types:
- f. Body Color:
- g. Short or long:
- h. Types of heads:
- i. Number of Eggs present:
- j. Number of First Stage Instar Larva:
- k. Number of Second Stage Instar Larva:
- l. Number of Third Stage Instar Larva:
- m. Number of Pupa:
- n. General Observations:

19. Day Seventeen Observations:



- a. Today's Date:
- b. Number of flies:
- c. Types of wings:
- d. Color of Eyes:
- e. Body types:
- f. Body Color:
- g. Short or long:
- h. Types of heads:
- i. Number of Eggs present:
- j. Number of First Stage Instar Larva:
- k. Number of Second Stage Instar Larva:
- l. Number of Third Stage Instar Larva:
- m. Number of Pupa:
- n. General Observations:

#### 20. Day Eighteen Observations:

- a. Today's Date:
- b. Number of flies:
- c. Types of wings:
- d. Color of Eyes:
- e. Body types:
- f. Body Color:
- g. Short or long:
- h. Types of heads:
- i. Number of Eggs present:
- j. Number of First Stage Instar Larva:
- k. Number of Second Stage Instar Larva:
- l. Number of Third Stage Instar Larva:
- m. Number of Pupa:
- n. General Observations:

#### 21. Day Nineteen Observations:

- a. Today's Date:
- b. Number of flies:
- c. Types of wings:
- d. Color of Eyes:
- e. Body types:
- f. Body Color:
- g. Short or long:

- h. Types of heads:
- i. Number of Eggs present:
- j. Number of First Stage Instar Larva:
- k. Number of Second Stage Instar Larva:
- l. Number of Third Stage Instar Larva:
- m. Number of Pupa:
- n. General Observations:

## 22. Day Twenty Observations:

- a. Today's Date:
- b. Number of flies:
- c. Types of wings:
- d. Color of Eyes:
- e. Body types:
- f. Body Color:
- g. Short or long:
- h. Types of heads:
- i. Number of Eggs present:
- j. Number of First Stage Instar Larva:
- k. Number of Second Stage Instar Larva:
- l. Number of Third Stage Instar Larva:
- m. Number of Pupa:
- n. General Observations: