

Genetics with *Drosophila melanogaster*:

A kit demonstrating Mendel's 1st law of inheritance - the principle of segregation

Drosophila melanogaster, also known as the vinegar fruit fly, is the most well researched and genetically characterised laboratory organism. This fly is easy to breed and maintain in the laboratory. They produce a new generation every two weeks. Each female lays hundreds of eggs at a time producing a large, statistically significant number of progeny. Most visible genetic mutations can be scored with the aid of a hand lens or dissecting microscope.

In this kit the trait to be investigated is normal versus vestigial wing shape



Suitable for 2-4 students
Each kit contains:

1 x food vial containing adult parent flies
1 x food vial containing adult F1 progeny
1 x food vial containing adult F2 progeny
2 x empty vials with stoppers
an experimental protocol

Schools need to supply

ice containers and /or freezers
20 – 25°C incubator for viewing over 2 weeks
white cardboard or tile for scoring the flies

Each kit costs

\$10 plus postage and handling plus GST

Order forms in pdf format can be downloaded and posted/faxed to the department along with an official school purchase order form.

The invoice for each order will accompany each kit.