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Date: _____ Name: _____

Fruit Fly Genetics

K R A A F H G H

Instructions:

Please proceed to the following website: <http://www.biologymem.com/virtualgenetics/notes.html>
In this virtual lab you will be investigating Mendelian laws of inheritance by crossing fruit flies. Look over the phenotype key provided in order to familiarize yourself with the various fruit fly phenotypes. For each cross you will be examining the F1 and F2 phenotypes. By considering the parental genotypes and offspring phenotypes you will be able to determine whether the traits are inherited through sex linked or autosomal inheritance.

Before beginning the virtual simulation, please ensure to read the background information on the homepage and complete the pre-lab questions below.

Pre-lab Questions:

1. Why are fruit flies a good subject for genetic studies? (2 K)
 - Small animal, short life cycle, cost effective and easy to keep large numbers.
 - Mutant flies are available, and the entire genome has recently been sequenced.
2. Describe the life cycle of *Drosophila melanogaster*. (2 K)
 - Life cycle is like other insects: eggs (embryos) are laid, develop into larva (1st, 2nd, 3rd instar then prepupa, pupa and finally adult form.
3. What tools would you need to study fruit flies in the lab? (2 K)
 - vials containing culture medium, anaesthetic, paint brush, microscope
4. Show the abbreviations that would be used to denote a fly with dumpy (dp) wings and a wild type fly that is carrying the allele for dumpy wings. The allele is not located on the sex chromosome. (2 K)
 - Fly with dumpy wings: dp/dp Carrier for dumpy wings: dp+/dp

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