II. Dihybrid crosses

Procedure

- 1. Mate virgin vestigial females with sepia males.
- 2. After 1 week, remove parents.
- 3. Examine F_1 phenotypes and record number of flies examined.
- 4. Place 3-5 pairs of F_1 flies in a new vial.
- 5. Transfer step 4 flies to a new vial every 3-4 days. (2-3 vials/cross)
- 6. Examine F₂ phenotypes and record the numbers of flies examined.

Results

1.	Data Recording Sheet
	Date of beginning:
	P: vestigial (vg) females X sepia (se) males

				i
	-	1	1	

		Numbers of flies			
Date	Sex	+	se	vg	se vg
	female				
	male				
	female				
	male				

F₂:

		Numbers of flies			
Date	Sex	+	se	vg	se vg
	female				
	male				
	female				
	male				

2. Based on these results, draw a diagram to show the transmission of vestigial and sepia in two generations and the expected ratios of phenotypes in F_2 . Compare your results with the expectation by chi square test