

# Genetics

## Study guide

### Chapter 7. Linkage

- Distinguish independent genes, complete linkage, and incomplete linkage (based on frequencies of gametes or testcross progeny).

| Independent (no linkage)                                                                                                    | Complete Linkage                                                                                                                                    | Incomplete Linkage                                                                                                                                                                                 |
|-----------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| -4 genetically different gametes in equal proportion.<br>-Each has a different combination of alleles.<br><br>1:1:1:1 ratio | -Two genetically different gametes.<br>-Two parental or non-crossover gametes in equal proportions. -Gene loci are close together.<br><br>1:1 ratio | -Crossing over<br>-Two non-sister chromatids.<br>-New allele combinations<br>-4 different gametes<br>-2 parental in = prop. (together >50%)<br>-2 recombinant (<50%)<br><br>Deviation from 1:1:1:1 |

Number of linkage groups = haploid number of chromosomes.

- Calculate genetic distance and gene order based on recombination frequency.

$R\% = \frac{\text{Number of recombinants}}{\text{Total number of progeny}} \times 100$

Number of recombinants always sum of 2 numbers.

If >50cM, crossover is expected to occur and behave as independent.

Farther apart: random crossover.

- Distinguish coupling vs. repulsion (allele arrangement, types and frequencies of gametes and testcross progeny). Be able to apply to complete linkage and to incomplete linkage.

| Coupling | Repulsion |
|----------|-----------|
|----------|-----------|

# Genetics Study Guide For 7th Grade

**S Ben Porath**



## **Genetics Study Guide For 7th Grade:**

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Western Carolina University Book Features Advice for selecting and evaluating graphic novels Teaching strategies for each of the four major content domains Guidance for aligning instruction with the Common Core State Standards A list of educational graphic novels organized by content area Study group questions And more William G Brozo is a professor of literacy in the Graduate School of Education at George Mason University in Fairfax Virginia and author of RTI and the Adolescent Reader Gary Moorman is professor emeritus at Appalachian State University in Boone North Carolina Carla K Meyer is an assistant professor in the Reading Education and Special Education Department at Appalachian State University

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