

**Ms. Chirby's AP Biology Review Packet**

Thank you Ms Chirby!

**Unit 1: Evolution and Classification**

**Thinking Practice Questions**

1. As a field researcher you are sent to the Arizona desert to study the prairie dog species *C. lundvindianus* to determine if the population is in Hardy-Weinberg equilibrium. Specifically, you are studying this population with respect to the gene that determines the coat color in *C. lundvindianus*. This trait is coded for by a single gene (the *NDY6* gene) with two alleles (N, n) and is passed down from one generation to the next. After sampling 170 of these prairie dogs, you find that 36% of the *C. lundvindianus* population is homozygous recessive for coat color. Assuming that the population is in Hardy-Weinberg equilibrium...

a. What is the allele frequency of the N allele?

$$q^2 = 0.36 \rightarrow q = 0.6 \dots p + q = 1 \text{ so } p = 0.4$$

b. What is the frequency of homozygous dominant prairie dogs?

$$p^2 = (0.4)^2 = 0.16$$

c. What is the frequency of heterozygous prairie dogs?

$$2pq = 2(0.4)(0.6) = 0.48$$

d. What conditions must be being satisfied for this population to be in HW equilibrium?

No natural selection, no sexual selection (random mating), no gene flow, no genetic drift, no mutation

2. Sixty flowering plants are planted in a flowerbed. Forty of the plants are red-flowering homozygous dominant. Twenty of the plants are white-flowering homozygous recessive. The plants naturally pollinate and reseed themselves for several years. In a subsequent year, 178 red-flowered plants, 190 pink-flowered plants, and 52 white-flowered plants are found in the flowerbed. Use a chi-square analysis to determine if the population is in Hardy-Weinberg equilibrium.

Total initial population size = 60

$$q^2 = 20/60 = 1/3 \rightarrow q = 0.577 \rightarrow p = 0.423$$

$$p^2 = 0.179$$

$$2pq = 2(0.423)(0.577) = 0.488$$

With a final population size of 420 (178+190+52), if the population is in HW equilibrium, the following values are expected (e):

$$\text{Red flowered plants} = 0.179 \times 420 = 75$$

$$\text{Pink flowered plants} = 0.488 \times 420 = 205$$

$$\text{White flowered plants} = 0.333 \times 420 = 140$$

**Chi square analysis**

**Null Hypothesis:** The observed values for red-flowered plants, pink-flowered plants, and white-flowered plants are not significantly different from the expected values predicted by HW equilibrium.

Phenotype	O	E	$(O-E)^2 / E$
Red	178	75	14.1
Pink	190	205	1
White	52	410	313
		Sum = $\chi^2$	455

# Ap Biology Chapter 15 Reading Guide Answers

**Bertha Tannehill, Anna Lorraine  
Guthrie, Neltje Marie Tannehill Shimer**

## Ap Biology Chapter 15 Reading Guide Answers:

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**Science Books & Films** ,1989     **Human Biology and Health** ,1997     **Resources in Education** ,1992-08     **The Oklahoma Teacher** ,1940     **English Mechanic and Mirror of Science** ,1878     **The Open Shelf** ,1895     **Book Review Digest** ,2000     *Whitaker's Cumulative Book List* ,1958     **Agrindex** ,1992     **P.O.W.E.R. Learning** Robert Stephen Feldman,2000     *Best Practices in Gifted Education* Ann Robinson,Bruce M. Shore,Donna Enersen,2021-09-03 A gifted education Legacy Award winner Best Practices in Gifted Education provides concise up to date research based advice to educators administrators and parents of gifted and talented youth The 29 practices included in this volume are the result of an extensive examination of educational research on what works with talented youth The interest in culturally diverse and low income learners the means to identify talents and the need for curriculum that appropriately challenges high ability youth constitute just a few of the 29 practices Each practice is organized into a chapter containing two sections What We Know and What We Can Do The first section briefly describes the practice and summarizes the research The second section suggests what course of action a parent teacher or administrator might take at home in the classroom or at school The book is a must have for those who want a guide that makes a connection between research and practical action in gifted education A service publication of the National Association for Gifted Children Washington DC This designation indicates that this book has been jointly developed with NAGC and that this book passes the highest standards of scholarship research and practice

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