

Genetics Packet ~ Punnett Square Practice **KEY**

Basics

1. The following pairs of letters represent alleles of different genotypes. Indicate which pairs are Heterozygous and which are Homozygous. Also indicate whether the homozygous pairs are Dominant or Recessive (*note heterozygous pairs don't need either dominant nor recessive labels.)

A. BB = Homozygous dominant

D. gg = Homozygous recessive

B. Bb = Heterozygous

E. aa = Homozygous recessive

C. Gg = Heterozygous

F. Ee = Heterozygous

2. In humans, brown eye color (B), is dominant over blue eye color (b). What are the phenotypes of the following genotypes?

A. Bb = Brown eyes

B. BB = Brown eyes

C. bb = blue eyes

Monohybrid Crosses with Complete Dominance

3. A heterozygous smooth pea pod plant is crossed with a wrinkled pea pod plant. There are two alleles for pea pod, smooth and wrinkled. Use R for seed texture. Predict the offspring from this cross.

a. What is the genotype of the parents? Rr x rr

b. Set up a Punnett square with possible gametes.

	R	r
r	Rr	rr
r	Rr	rr

c. Fill in the Punnett square for the resultant offspring.

d. What is the predicted genotypic ratio for the offspring? 1Rr : 1rr

e. What is the predicted phenotypic ratio for the offspring? 1 smooth : 1 wrinkled

f. If this cross produced 50 seeds how many would you predict to have a wrinkled pod? 25

4. In humans, achondroplasia "dwarfism" (D) is dominant over normal (d).

A homozygous dominant (DD) person dies before the age of one.

A heterozygous (Dd) person is dwarfed. A homozygous recessive individual is normal.

A heterozygous dwarf man marries a heterozygous dwarf woman...

	D	d
D	DD	Dd
d	Dd	dd

a. What is the probability of having a normal child? 1/3... 33.3%

b. What is the probability that the next child will also be normal? 1/3... 33.3%

each child is a new shot at the same punnett square!

c. What is the probability of having a child that is a dwarf? 2/3... 66.6%

d. What is the probability of having a child that dies at one from this disorder? 25%

Genetic Engineering Packet Answer Key

M Mosston



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Jacaranda Nature of Biology 2 VCE Units 3 and 4, LearnON and Print Judith Kinnear, Marjory Martin, Lucy Cassar, Elise Meehan, Ritu Tyagi, 2021-10-29 Jacaranda Nature of Biology Victoria's most trusted VCE Biology online and print resource The Jacaranda Nature of Biology series has been rewritten for the VCE Biology Study Design 2022 2026 and offers a complete and balanced learning experience that prepares students for success in their assessments by building deep understanding in both Key Knowledge and Key Science Skills Prepare students for all forms of assessment Preparing students for both the SACs and exam with access to 1000s of past VCAA exam questions now in print and learnON new teacher only and practice SACs for every Area of Study and much more Videos by experienced teachers Students can hear another voice and perspective with 100s of new videos where expert VCE Biology teachers unpack concepts VCAA exam questions and sample problems For students of all ability levels All students can understand deeply and succeed in VCE with content mapped to Key Knowledge and Key Science Skills careful scaffolding and contemporary case studies that provide a real word context eLogbook and eWorkbook Free resources to support learning eWorkbook and the increased requirement for practical investigations eLogbook which includes over 80 practical investigations with teacher advice and risk assessments For teachers learnON includes additional teacher resources such as quarantined questions and answers curriculum grids and work programs [Cornell Instructional Materials Catalog](#) New York State College of Agriculture and Life Sciences. Department of Education. Instructional Materials Service, 1992 [Resources in Education](#) , 1998 **Genetic Engineering News** , 2004 **Genetic Engineering & Biotechnology News** , 2009 *Salinity and Sodicty* Thomas M. DeSutter, David E. Clay, Girisha K. Ganjgunte, James D. Oster, 2024-08-06 Explore the growing problem of soil salinity and sodicity and its impact on the environment profitability the human population and soil resilience In *Salinity and Sodicty A Global Challenge to Food Security Environmental Quality and Soil Resilience* a team of distinguished educators delivers an expert discussion of salinity and sodicity management This book is designed to improve the problem solving capabilities of students soil health professionals certified crop advisors and other practicing professionals in this area In addition to an introduction to the causes of a rapidly growing problem *Salinity and Sodicty* explores different measurement techniques provides answers to common questions provides potential solutions in a way that's appropriate for introductory classes on soil salinity and sodicity management It's an ideal reference manual for professionals as well as an effective tool for classrooms and crop advisor workshops Readers will also find A thorough introduction to the use of supplemental irrigation and the impact of salts on the environment Comprehensive explorations of the economic considerations for farming problematic soils Practical discussions of the effects of salinity and sodicity on erosion and greenhouse gas emissions Practical case studies problem sets and an instructor answer key Perfect for undergraduate graduate and doctoral students and certified and practicing soil professionals and advisors *Salinity and Sodicty* will also benefit industry and academic

researchers with an interest in soil salinity and sodicity in dryland regions *Excel HSC Biology* Diane Alford, Jennifer Hill, 2008 **Biotechnology and Agriculture** Lynne Moraghan, 1992 **Genetic Engineering and Biotechnology Monitor**, 1994 *Genetic Engineering and Biotechnology*, 1997 **Lubrication Engineering**, **Resources in Education**, 1997 *American Wine & Food*, 1992 **The Science of Agriculture** Ray V. Herren, 2007 This text focuses on the scientific principles of the agricultural industry Designed for use in high school agriscience courses the aim of the text is to provide students with a basic understanding of the concepts behind the agricultural industry Traditionally high school agriculture texts have concentrated on the how behind the industry The Science of Agriculture A Biological Approach third Edition concentrates more on the why behind the industry Topics include plant and animal systems soils cell functions genetics genetic engineering plant and animal reproduction entomology the uses of biotechnology and careers The text also includes a thorough examination of the controversy and concerns over the use of genetic engineering genetically modified organisms cloning and their perceived and potential dangers to humans and the environment Each chapter begins with clearly stated learning objectives followed by key terminology Chapters close with student learning activities intended to extend learning beyond the text material end of Chapter test questions in True False Short Answer Discussion and Multiple Choice formats help to evaluate students understanding of the concepts presented in the text *California Farmer*, 2012 **Sustainable Agriculture for a Food Secure World**, 1994 *National Geographic*, 2009 *Engineering*, 1904 House Legislative Record of the ... Legislature of the State of Maine Maine. Legislature, 2000 **Ecology**, 1993

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