

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 dominantD. gg = Homozygous recessiveB. Bb = HeterozygousE. aa = Homozygous recessiveC. Gg = HeterozygousF. 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 eyesB. BB = Brown eyesC. bb = blue eyesMonohybrid 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? 1 Rr : 1 rre. What is the predicted phenotypic ratio for the offspring? 1 smooth : 1 wrinkledf. 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 Problems Packet And Answers

**National Organization for Rare
Disorders**



Genetic Problems Packet And Answers:

A Contemporary Autobiography of a Science Educator Scott D. Robinson, 2008-01-01 A Contemporary Autobiography of a Science Educator reminds readers that they teach who they are and understanding who they are is fundamental for meaningful communication and effective classroom instruction The book is for science educators teacher educators and others who wish to examine their own personal and professional identities in the social and cultural contexts in which their lives are embedded Just as teaching can be viewed as relationship with others this contemporary autobiography is situated on the significance of relationship with self As a contemporary autobiography the narrative reveals the author's subjective truths while digging deeply into psychosocial motives of power and intimacy The author reflects on his personal choices and career decisions that led him into and out of high school science teaching The book contains stories and reflections from summer work camp experiences undergraduate college days teacher preparation episodes and high school science teaching Story themes are diversity and leadership group identity and motivation urban teaching and teacher preparation and high school science teaching These themes evolve out of nuclear episodes of the author's storied life that brings present day understanding and meaning from past actions and interactions This kind of critical introspection may hold special relevance for teachers teacher educators and others who wish to make their own identities salient and relevant to their own needs and interests as well as the needs and interests of students teacher candidates and clients whom they serve

Resources in Education, 1999-04 **Truth and Consequences of the Genetic Revolution** Lisa M. Matocq, 2000-07 Testimony Thomas Lee Truth and Consequences of the Genetic Revolution Chris Roberson Carrie Statkus Doris Goldman and Jon Turner How Much Do we Want to Know about Our Future Health Risks Geoffrey Sher Pacific Fertility Clinic Designer Children Sylvia Spengler Dept of Energy Charles Epstein Univ of Calif San Francisco George Cunningham Dept of Health Services David Nagler Genentech Inc The Human Genome Project Identifying Genetic Links to Disease and Paul Billings Council for Responsible Genetics Phil Bereano Univ of Wash and Radhika Rao Hastings College Social Legal and Ethical Implications *The Complete Directory for People with Rare Disorders* National Organization for Rare Disorders, 2002 This reference for lay readers and health care professionals presents information on disorders affecting fewer than 200 000 people in the U S at any one time Each of the more than 1 100 entries describes the characteristics causes and symptoms of a particular disorder The extensively cross referenced volume also features profiles of 680 disease specific organizations as well as 629 umbrella organizations and 77 government agencies Annotation copyrighted by Book News Inc Portland OR

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laboratory information and apply them to the diagnosis and management of human disease Provides online access to all of the questions in the print book along with additional interactive questions

Conceptual Change Strategies in Teaching Genetics Laura Elizabeth Batzli,1999

Clinical Guide to Oral Diseases Dimitris Malamos,Crispian Scully,2021-03-15 A quick reference and revision guide on the most common oral and perioral diseases seen in clinical practice Clinical Guide to Oral Diseases is a concise reference on the common diseases encountered in daily practice Presenting a large selection of clinical cases this user friendly resource covers a range of oral and perioral lesions located in hard and soft tissues of the mouth and neck as well as oral manifestations of various systemic diseases Nearly 300 high quality color images complement succinct descriptions of clinical cases seen in both community and hospital care settings Divided into three parts the text first covers oral lesions classified by their color appearance and symptomatology such as bleeding disturbances of saliva taste and orofacial pain Part two describes the most common oral lesions by location including those in the buccal mucosae floor of mouth gingivae and jaws lips neck palate salivary glands tongue and teeth The third part encompasses oral lesions that are normal variations or those common to specific age groups or associated with various clinical phenomena Provides nearly 300 high quality clinical photos and relevant questions to help lead readers to the proper diagnosis of common oral diseases Contains concise tables relevant to each chapter with a list of common oral lesions and conditions Offers MCQs of varying levels of difficulty to help readers test their knowledge in Oral Medicine Includes clinical flow charts according to the location and duration of oral lesions Incorporates the ICD 10 Codes of oral lesions and diseases Clinical Guide to Oral Diseases is a valuable reference for general dental and medical practitioners undergraduate dental students and postgraduate trainees in oral and maxillofacial surgery oral medicine oral pathology periodontology as well as general pathology dermatology or head and neck oncology

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