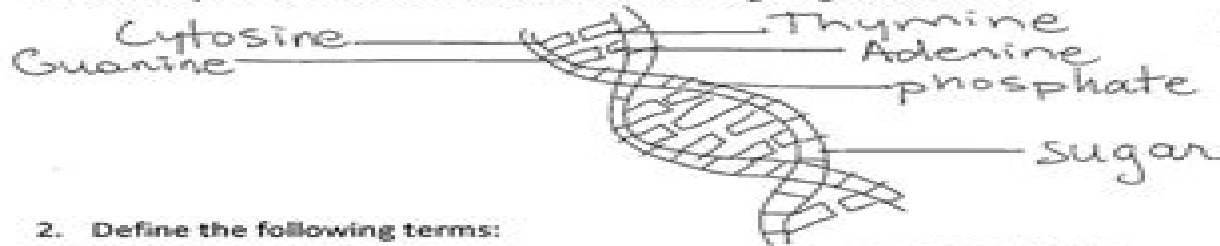


SCIENCE 10 Genetics Review

1. Identify the 2 mistakes made in the following diagram of DNA:



1. Thymine pairs with Adenine and Cytosine pairs with Guanine.

2. Nucleic acids attached to sugar not phosphate on backbone.

2. Define the following terms:

- a. Allele
- b. Trait
- c. Gene
- d. Recessive
- e. Dominant
- f. Heredity

- g. Homozygous
- h. Heterozygous
- i. Offspring
- j. Phenotype
- k. Genotype

3. If a chicken's DNA is composed of 26% guanine, what percentage will be cytosine?

26%

4. What is the relationship between a trait, a gene, and a chromosome?

Genes code for traits, genes are found on DNA that is stored as chromosomes in cells

5. { a. What is a mutation?
b. Describe the 3 types of mutations.
c. Identify the 3 potential ^{types} of mutations.

Outcomes

a. error in DNA

b. substitution: one or more bases are replaced by different bases.

insertion: 1+ bases extra inserted into DNA

deletion: 1+ bases deleted from DNA

c. advantageous
deleterious
neutral

In dogs, the gene for fur color has two alleles. The dominant allele (F) codes for grey fur and the recessive allele (f) codes for black fur.

- a. The female dog is heterozygous. The male dog is homozygous recessive. If these two dogs reproduce, what percentage of their offspring will be grey? **50%**

	F	f
f	Ff	ff
f	Ff	ff

- b. The female dog is heterozygous. The male dog is heterozygous. If these dogs reproduce what percentage of their offspring will be homozygous dominant?

	F	f
F	FF	Ff
f	Ff	ff

Cystic fibrosis is a recessive genetic disorder. Ron is homozygous dominant and Nancy is a carrier of cystic fibrosis. What is the probability that one of their children will have cystic fibrosis? **0%**

	G	G
G	GG	GG
g	Gg	Gg

8. Patty is homozygous dominant for freckles, while Charlie is homozygous for no freckles. What is the probability of their children having freckles? **100%**

	F	F
f	Ff	Ff
f	Ff	Ff

9. Eddie has brown eyes, while Cybil has blue. Brown eyes are known to be dominant. None of Eddie and Cybil's children have blue eyes. What must Eddie's genotype be? **BB**

Eddie BB:

	B	B
b	Bb	Bb
b	Bb	Bb

0% blue

Eddie Bb:

	B	b
b	Bb	bb
b	Bb	bb

50% blue

Genetics Unit 2 Review Answer Key

Thomas Griffiths



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