

Name _____ Class _____ Date _____

Chapter 11 Introduction to Genetics**Section Review 11-1****Reviewing Key Concepts****Short Answer** *On the lines provided, answer the following questions.*

1. State Mendel's principle of dominance.

2. Which two combinations of alleles could produce a trait controlled by a dominant allele?

3. What combination of alleles could produce a trait controlled by a recessive allele?

4. Explain segregation of alleles, using pea plant traits in your example.

Reviewing Key Skills

5. **Applying Concepts** Explain how Mendel's experiments would have been different if he had not worked with true-breeding plants.

6. **Comparing and Contrasting** Explain the difference between cross-pollination and self-pollination in plants.

7. **Calculating** One fourth of the plants resulting from a certain cross are expected to show a trait controlled by a recessive allele. If 675 plants resulting from the cross display a trait controlled by a dominant allele, how many plants will show the trait controlled by the recessive allele?

8. **Applying Concepts** If one of the plants used in the F_1 cross had TT alleles and was combined with a plant with Tt alleles, would the trait controlled by the recessive allele have been produced in the resulting F_2 generation? Explain your answer.

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Chapter 11 Introduction to Genetics The varied patterns of stripes on zebras are due to differences in genetic makeup. No two zebras have identical stripe patterns. Are traits inherited? Procedure 1. Look at your classmates. Note how they vary in the shape of the front hairline, the space between the two

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Chapter 11: Introduction to Genetics. DO NOW • Work in groups of 3 • Create a list of physical characteristics you have in common with your group. • Consider things like eye and hair color, style/texture of hair, shape of nose/ears, and so on. • Why do we all look different from each other? DO NOW ANSWERED • We all have different parents. • Our parents have their own physical ...

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Chapter 11 Introduction to Genetics 1. Chapter 11 Introduction to Genetics Pg. 262 2. What makes you unique? • Sure, we're all humans, but what makes you different from others in the room. • Your talents, interests or dreams? • Your personality, looks or clothes? • Actually, one of the reasons you're unique is because of the genes you inherited from your parents. • Your genes make you unique, they have a hidden potential that can make you excel at things others can not. • Seek out ...

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Chapter 11 Introduction To Genetics When each F1 plant flowers and produces a gametes, the two alleles segregate from each other so that each gamete carries only a single copy of each gene. Therefore, each F1 plant produces two types of gametes-those with the allele for tallness and those

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Genetics and the Environment. Characteristics are not solely determined by genes, but they are also determined by the interaction between genes and the environment. Example: PKU is a genetic disorder that can lead to mental retardation. Wealthier countries have the ability to test for high levels of PKU during pregnancy and mothers can be put on a special diet to lower PKU levels. However ...

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Chapter 11: Introduction to Genetics. Section 11-2: Applying Mendel's Principles. Introduction. We cannot predict the future - If a parent carries 2 different alleles for a certain gene, there is no way to be sure which allele will be inherited by its offspring. The only thing we can do is predict the odds by applying Mendel's principles. Probability. Mendel was very careful to categorize ...

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11. a specific characteristic that varies between one individual and another: 12. traits produced by the interaction of many genes: 14. when an egg and a sperm join: 19. the study of heredity: 21. sex cells, produced during meiosis: 22. the offspring crosses between parents with different traits: 23. the production of haploid sex cells, gametes

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Introduction to Genetics Chapter 11 2. 11- 1 The Work of Gregor Mendel Every living thing - plant or animal, microbe or human being - has a set of characteristics inherited from its parents Since the beginning of recorded history, people have wanted to understand how that inheritance is passed from generation to generation

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