

Biology 12 Genetics Review

1. Why was Mendel's choice of pea plants for studying inheritance such a good one?

Because of their short generation time. And they're cheap.

2. What is the Law of Segregation? What observations lead to Mendel developing this idea?

States that when gametes (sex cells) are formed, the two versions of each gene that the organism has will separate into different sex cells. Mendel thought of this after the recessive trait, that had disappeared in the F_1 generation reappeared in the F_2 . This means the F_1 plants had the recessive gene, but it was "hidden" by the dominant.

3. Although Mendel had described alleles as either dominant or recessive, that idea isn't quite complete. Explain.

At times there is neither a dominant nor recessive version of a gene. Rather they are both codominant or incompletely dominant.

4. What does the term "true-breeding" mean?

It's the old term for homozygous (either recessive or dominant).

5. Mendel did studies on P , F_1 , and F_2 generations, it was the F_2 generation that was the most important. Why is that?

The F_2 is where the recessive traits reappeared. This showed that the recessive version was in the previous generation, just hidden by the dominant.

6. If T represented tall – the dominant allele for stem length, and t represented short – the recessive allele for stem length, show through a Punnett Square the possible offspring from a cross of a heterozygous tall plant and a homozygous short plant.

	T	t
t	Tt	tt
t	Tt	tt

7. What is the phenotypic ratio and genotypic ratio for the cross above?

1:1 (tall : short), and 1:1 (homozygous recessive : heterozygous)

8. What is the difference between a one factor cross and a two factor cross? How did these lead to the development of the Laws of Independent Assortment and Segregation?

A one factor cross looks at one characteristic (like plant height) whereas a two factor looks at two characteristics (like plant height and flower colour). The

Mendelian Genetics Answer Key

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The Top Books of the Year Mendelian Genetics Answer Key The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous compelling novels captivating the hearts of readers worldwide. Lets delve into the realm of popular books, exploring the captivating narratives that have captivated audiences this year. Mendelian Genetics Answer Key : Colleen Hoover's "It Ends with Us" This poignant tale of love, loss, and resilience has gripped readers with its raw and emotional exploration of domestic abuse. Hoover masterfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can succeed. Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This spellbinding historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids compelling storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Mendelian Genetics Answer Key : Delia Owens "Where the Crawdads Sing" This mesmerizing coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens crafts a tale of resilience, survival, and the transformative power of nature, entrancing readers with its evocative prose and mesmerizing setting. These top-selling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of compelling stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a masterful and thrilling novel that will keep you speculating until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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