

Name: _____

Genetic Engineering – Practice what you know

1. In which 2 ways can we "change" the genome of an organism? _____ *We can delete or add genes to the genome of an organism.*
2. What is a **transgenic** organism? _____ *An organism with a gene from a different species.*
3. What is a **clone**? _____ *Genetically identical organism.*

Tools : Cutting the DNA

4. What is a **restriction enzyme**? _____ *An enzyme that cuts DNA at specific locations.*
5. What does this figure to the right show?
- a. gel electrophoresis
 - b. DNA sequencing
 - c. **a restriction enzyme producing a DNA fragment**
 - d. polymerase chain reaction



- Between which nucleotides is the DNA cut?
- a. adenine and thymine
 - b. cytosine and guanine
 - c. thymine and cytosine
 - d. **adenine and guanine**

----This is the cutting pattern of 2 restriction enzymes:----



6. Cut the following piece of DNA using the **restriction enzyme Eco R1**.

**GCCCGGGGCATG|AATTCGCGTATCGTG|AATTCTGGGCCCATCAG|AATTCAA
CGGGCCCCGTACTTAA|GCGCATAGCACTTAA|GACCCGGGTAGTCTTAA|GTT**

7. How many fragments of DNA do you get? _____ *4*

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The Enigmatic Realm of **Genetic Engineering Answer Key Holt Biology**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing short of extraordinary. Within the captivating pages of **Genetic Engineering Answer Key Holt Biology** a literary masterpiece penned by way of a renowned author, readers embark on a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting affect the hearts and minds of people who partake in its reading experience.

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