

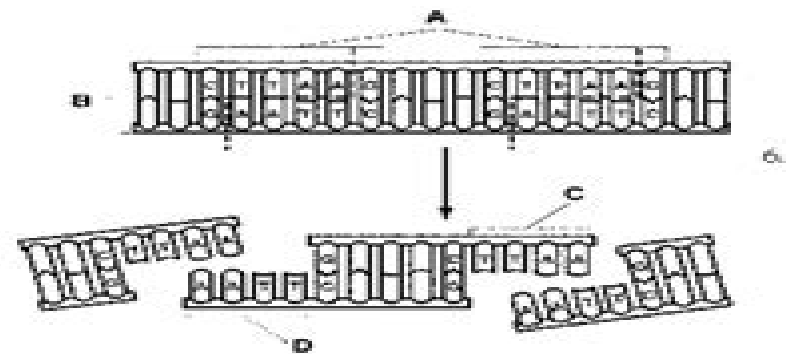
Name: _____

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:----

Eco R1
GAATTC
CTTAAG

Sma 1
CCCGGG
GGGCCC
(Sma1 cuts between both cytosines)

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

GCCCGGGGCATG**|**AATTC**GC**GTATCGTG**|**AATTCTGGG**CC**CATCAG**|**AATTCAA
CGGGCCCCGTACTTAA**|**GC**GC**CATAGCACTTAA**|**GACCCGGG**TAG**TCTTAA**|**GTT

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

Genetic Engineering Answer Key 13 1

Michael Rajnik



Genetic Engineering Answer Key 13 1:

Whispering the Strategies of Language: An Psychological Quest through **Genetic Engineering Answer Key 13 1**

In a digitally-driven world where screens reign supreme and quick conversation drowns out the subtleties of language, the profound strategies and psychological nuances hidden within phrases usually go unheard. However, nestled within the pages of **Genetic Engineering Answer Key 13 1** a interesting fictional treasure sporting with organic thoughts, lies an extraordinary journey waiting to be undertaken. Composed by a skilled wordsmith, this wonderful opus encourages readers on an introspective journey, lightly unraveling the veiled truths and profound influence resonating within the very cloth of each word. Within the mental depths of this poignant review, we will embark upon a genuine exploration of the book is primary subjects, dissect its fascinating publishing style, and succumb to the effective resonance it evokes deep within the recesses of readers hearts.

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