

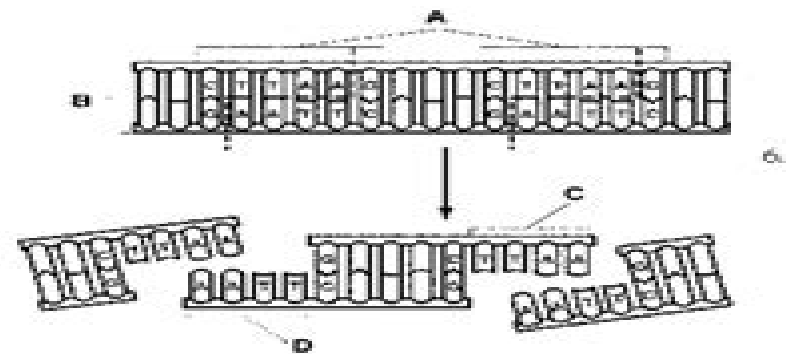
Name: _____

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 G's)

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

GGCCGGGGCATG|AATTCGCGTATCGTG|AATTCTGGGCCCATCAG|AATTCAA
CGGGCCCCGTACTTAA|GCGCATAGCACTTAA|GACCCGGGTAGTCTTAA|GTT

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

Holt Biology Answer Key For Genetic Engineering

Lingjun Ying



Holt Biology Answer Key For Genetic Engineering:

Unveiling the Energy of Verbal Artistry: An Emotional Sojourn through **Holt Biology Answer Key For Genetic Engineering**

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