

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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