

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.

### Task 1: Cutting the DNA

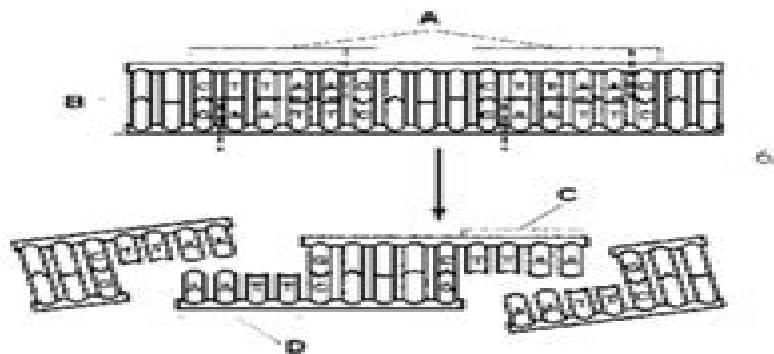
4. What is a **restriction enzyme**? \_\_\_\_\_ An enzyme that cuts DNA at specific locations.

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

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

GGCCGGGGCATGIAATTGCGGTATCGTGIAATTCTGGGCCCATCAGIATTCAA  
CGGGGCCCCGTACTTAAIGCGCATAGCACTTAAIGACCCGGGTAGTCTTAAIGTT

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

# 15 Genetic Engineering Answer Key

**Padhraic Smyth**

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