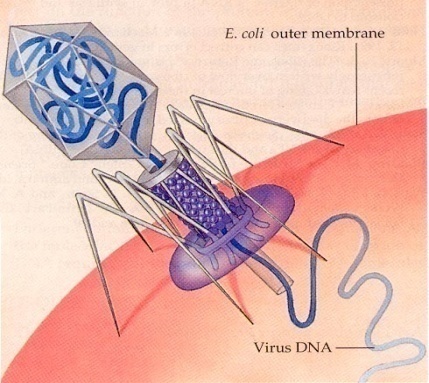
Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Gene Expression Notes

Genetic Engineering uses DNA 1.

Technology for purposes like:

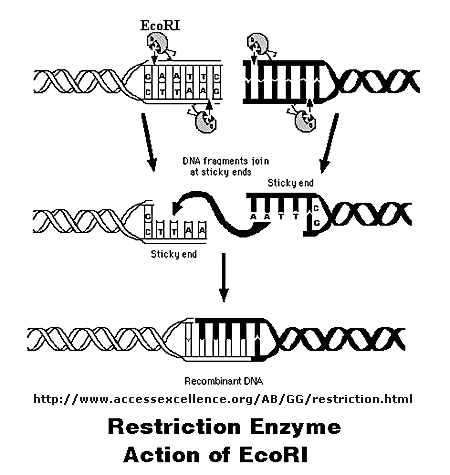


What is a Bacteria cell’s natural 2.

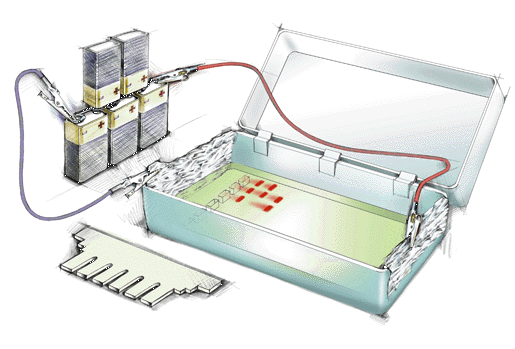
defense against a virus?

What is unique about each 3.

Restriction Enzyme?



Why are “sticky ends” important? 4.

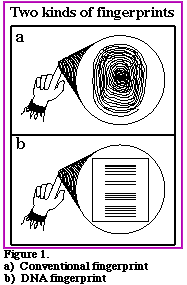
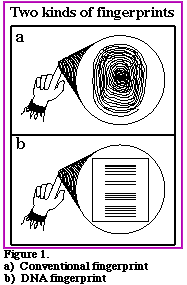
Everyone is said to have their 5.

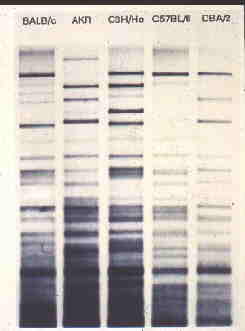
own unique DNA Fingerprint.

In order to solve a crime, DNA

can be sorted by size through

the process known as:



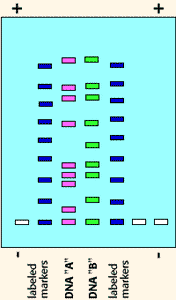


Before being loaded into a gel, 6.

the DNA must first be…







Crime Scene DNA

A

B

C

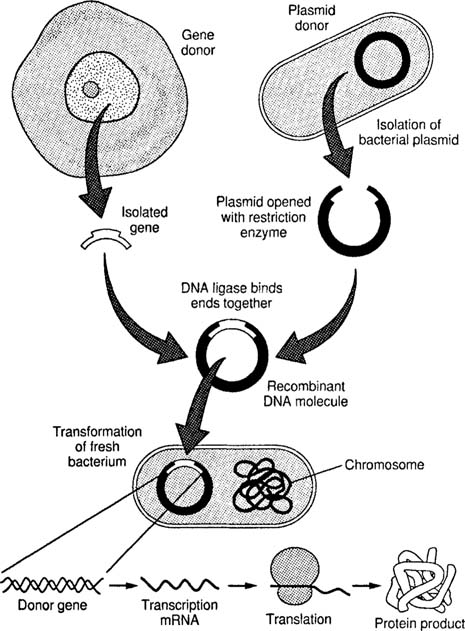
What must be done to each 7.

suspect's DNA in order to get

reliable results?

Uses for Recombinant DNA 8.

Technology include:

Before the pGlo lab, what did 9.

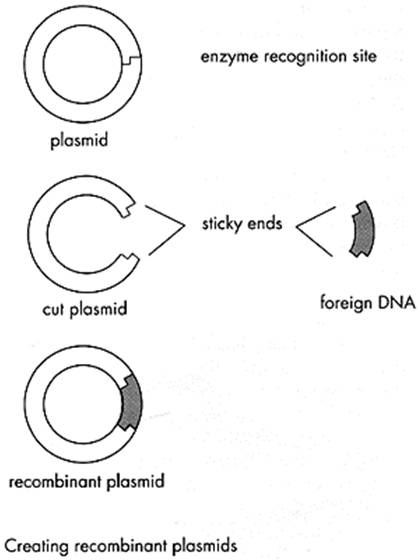
researchers have to do to both

the GFP gene and the plasmid?

GFP_Jellyfish.jpg                                              00016E3F
KSD Server                     B471509A:

How were the plasmids 10.

“Genetically Engineered”?



Explain what actually glowed

during the pGlo lab:

pGLO_results.jpg                                               00016E3F
KSD Server                     B471509A:

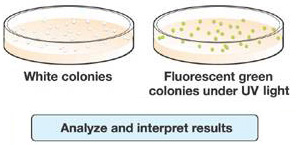
11.

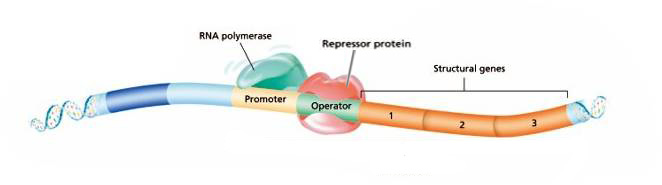
Why didn’t bacteria grown 12.

without sugar glow?

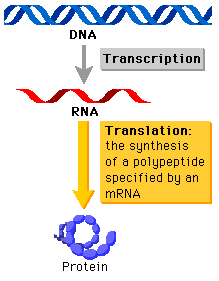
No Sugar

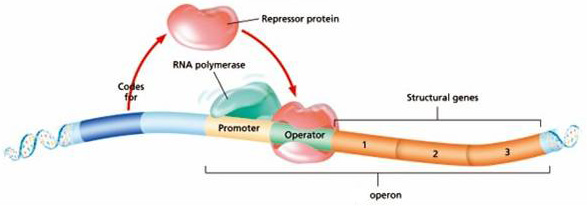
Sugar





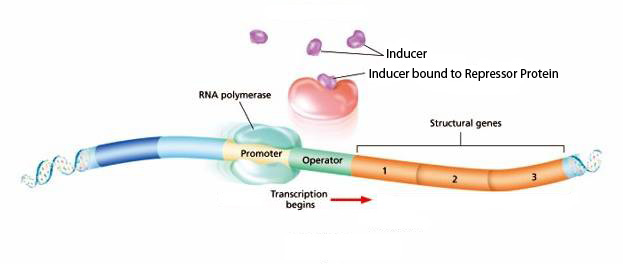
What is Gene Expression? 13.





How does a repressor protein

“Turn Off” a gene? 14.



How does an inducer molecule 15.

turn a gene “On”?

Explain how Sugar was the 16.

Inducer in the pGlo lab:

No Sugar

Sugar

