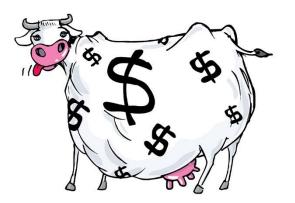
Quick Cloning review:

Turn in Cloning work from yesterday if you haven't already. ©

Pick up today's assignment.



6 year old dairy cow







Surrogate cow



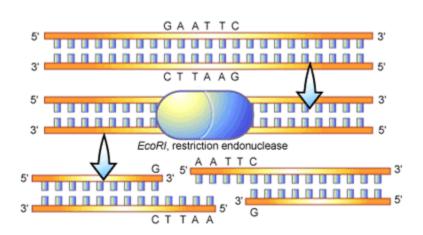
Clone

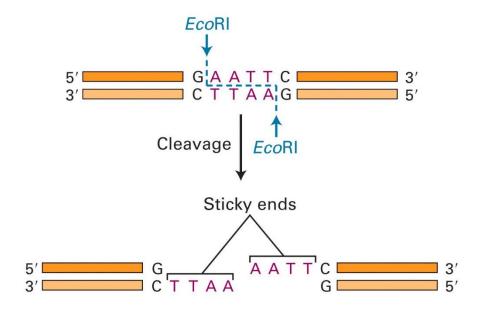
GENE SPLICING

Use with handout!

Restriction Enzyme

• Restriction enzymes are enzymes that cut a DNA molecule at a particular place.



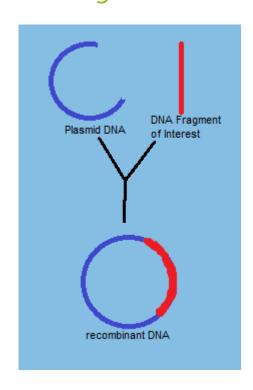


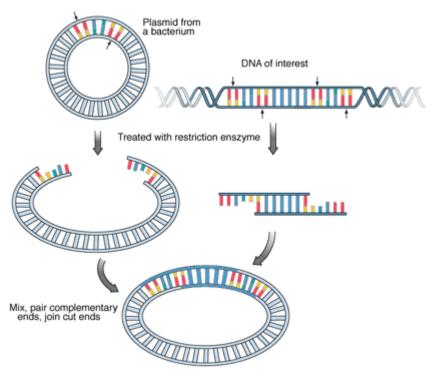
Use the scissors to cut at the sticky ends on your piece of DNA.

•What do the scissors represent?

Recombinant DNA

• **Recombinant DNA** is DNA that has been created by combining the DNA of two different organisms.





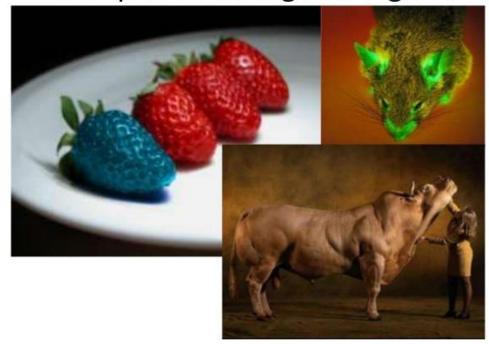
Working with a partner, place the human gene into the bacterial gene (plasmid).

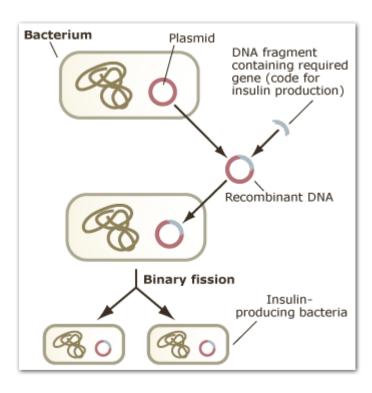
- •What is the new DNA structure called?
- •Why might it be useful to combine DNA from different organisms?

Transgenic Organism

• Organisms that have altered genomes are known as transgenic

Examples of transgenic organisms

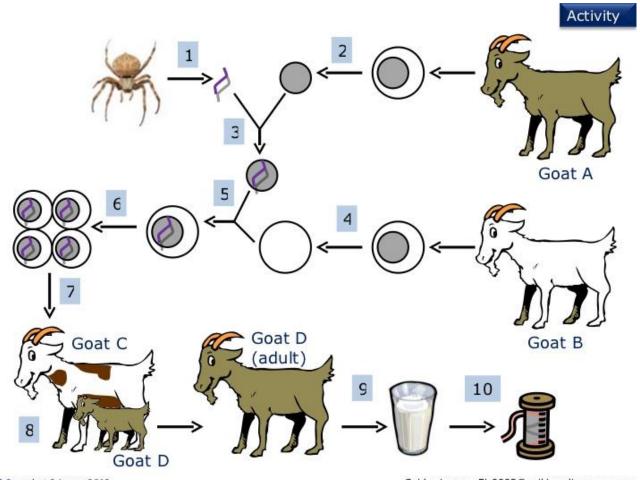




Spider Goat!

The transferred genes MUST be placed in an embryo of the modified organism!

Webbing used to reinforce tendons and jaw after surgery



Complete parts d and e on your paper.

Flip it over and complete the back side.

Turn in your paper and work on your product – let Mrs. Napier know what your topic is. ©