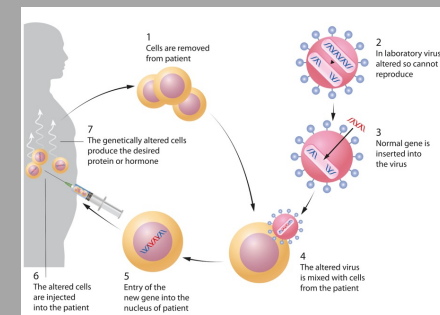
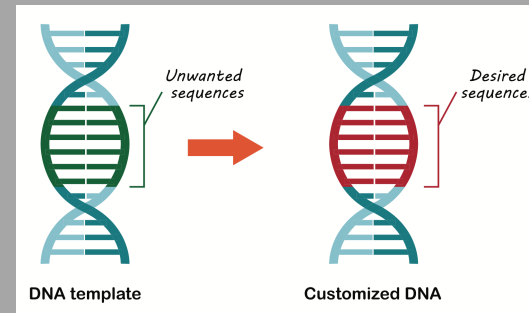


Genetic Technologies and Gene Therapy

- Introduction to Genetic Engineering
- CRISPR Technology
- Viruses and Gene Therapy
- GMOs



Preview File

Please enjoy this preview of your Student Version of the presentation. Please note within this sample file:

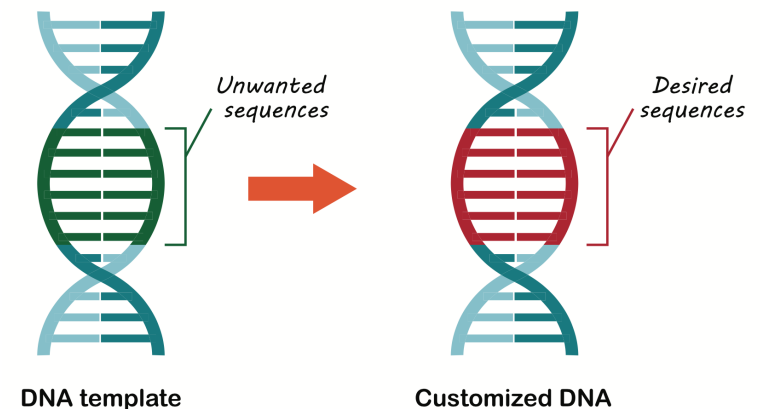
- Some slides appear blank because they have been removed
- Student versions have portions of the text removed which is given in the teacher version and appear as _____ which the students are to fill in
- Other slides may have on them, this represents writing that has been removed on this sample

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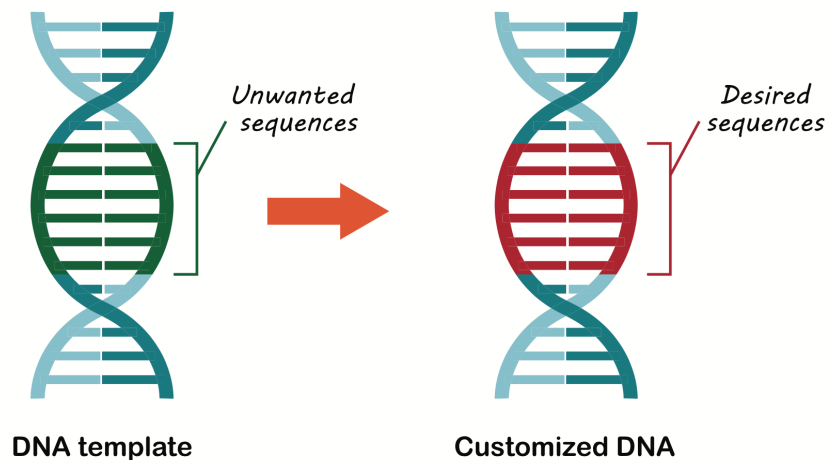
Genetic Engineering and Gene Therapy

- _____
- We can either change the genes or add a new gene to the DNA
- Gene therapy is a kind of genetic engineering



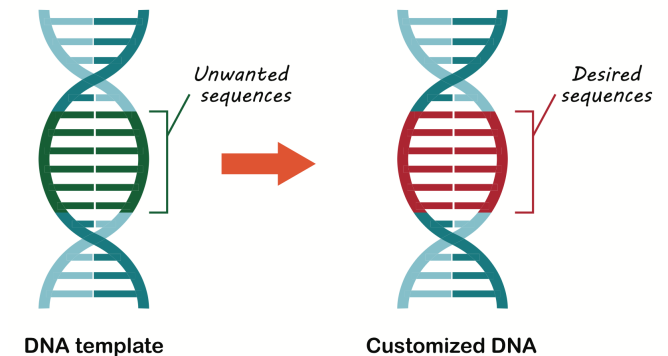
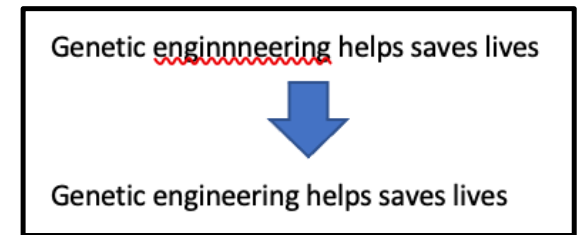
Genetic Engineering and Gene Therapy

- _____
- We can either replace a disease-causing gene with a healthy copy, turn off a disease-causing gene, or change the gene inside the body



CRISPR

- CRISPR can be used to find bad sections of DNA and edit them just like you edit a typing mistake in the middle of a sentence



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Think About It

Designer babies are what they call it when parents can design what their baby will look like, what gender it will have, how tall it will be, etc., before it is born. Like designing your house before it is built.

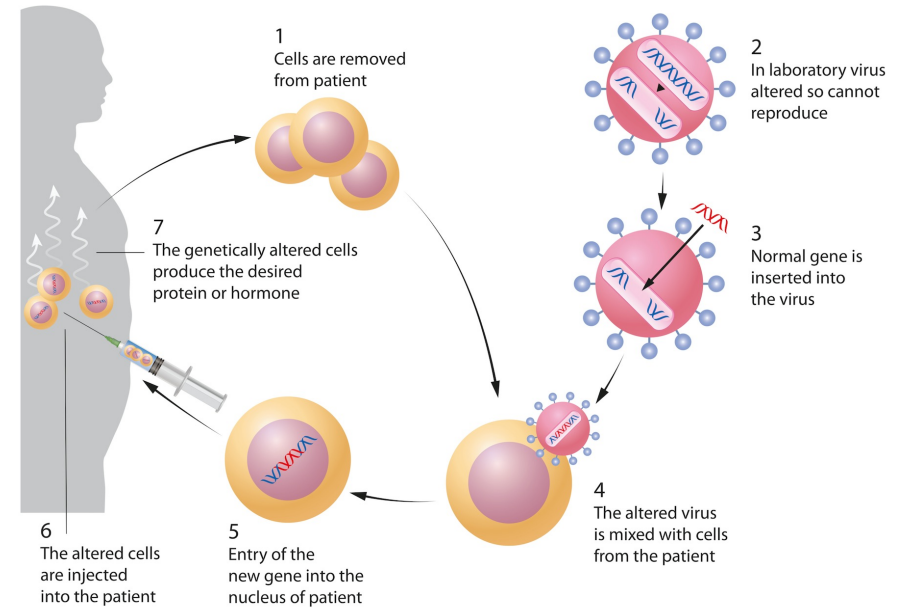
What do

Should designer babies be allowed?

List 2 good

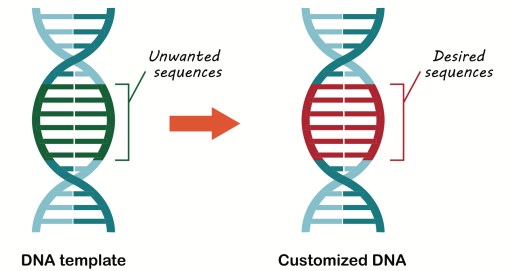
Viruses and Gene Therapy

- A gene cannot simply be put into your cells using a needle
- It has to be delivered using something called a vector



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GMOs

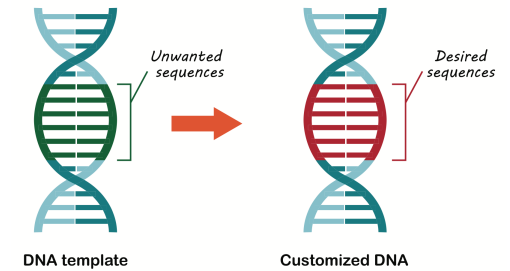


- Using gene therapy, scientists can mix genes from different species
- They can put genes into a plant so that it makes medicines or grows larger



Corn is the most commonly grown crop in the United States, and most of it is genetically modified to resist insect pests or tolerate herbicides.

GMOs



- Once the genes have been changed, these organisms are now known

Corn is the most commonly grown crop in the United States, and most of it is genetically modified to resist insect pests or tolerate herbicides.

GMOs



GMO crop examples include:

GMO	Benefit
Tomatoes	Can travel better and taste better
Corn	Resistance to pests
Rice	More vitamins



Think About It

What do you think about GMOs?

Should companies

List 2 good things and 2 bad things about GMOs.