

Introduction: Genetic Engineering
"Cut and Paste" Your DNA

"Cut..."



"and Paste"



1

Introduction: Genetic Engineering
Stronger?

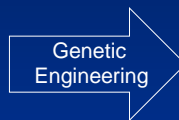
Genetic
Engineering



Changes in
Your DNA



Changes
in You



2

Introduction: Genetic Engineering Smarter



Genetic Engineering



3

Video Highlights: "What is a Gene?"



Gene Editing = Genetic Engineering
(Changing Your DNA)
0:04



Genes are sections of your DNA
0:14



Genes are in "Everything Living Thing"
0:22

<https://www.youtube.com/watch?v=XPDb8tqgfjY>








4

DNA = "Instruction Manual" (Recipe)
for how living things are made.
0:29

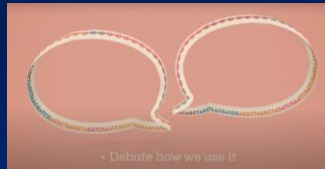
Children get DNA from both parents
0:57

CRISPR = "pinpoint...DNA" 1:42
Cas9 = "snips...DNA" 1:46

5

Positives	Negatives
 Cure Leukemia 2015 2:38	 <small>- The possibility of designer babies</small> "Designer" Babies 3:31
 Cure Cancer? 2:46	 <small>- It could be used to create designer pets</small> "Designer (glow in dark) Pets" 3:45
 Cure Malaria? 3:14	 Super Athletes
 4:22	

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Now is the time to debate...
4:00



How do we...

...use it. 4:02

...regulate it. 4:03

...avoid negative uses. 4:04

7

Critical Thinking Question: sports competition fair?



You

versus



Others

8

Critical Thinking Question #2: university exams fair?



You

versus



Others