TED Talk

Paul Root Wolpe: It's Time to Question Bio-Engineering

1	What were the 3 waves of evolution?
1.	
	a
	b
2.	cWhat are some examples of intentional evolution?
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3.	What does bioluminescent mean?
4.	What organisms have been made bioluminescent?
5.	What kinds of animals have been cloned?
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	the state of the s
Think	about the questions Wolpe asks at the end of his talk:
0	Is it okay to manipulate and create whatever creatures we want?
0	Do we have free reign to design animals exactly the way we want them?
0	Does industry get to create creatures who in their milk, in their blood, in their saliva, and other
	bodily fluids create the drugs and industrial molecules we want and then warehouse them as
	manufacturing machines?
0	Do we get to create organic robots where we remove the autonomy from these animals and
	turn them into our playthings?
0	Once we perfect these technologies in animals and we start using them in human beings, what
	are the ethical guidelines we use then?
Writin	g Assignment (Counts as a completion-based quiz grade)
9	Prompt : Bioengineering benefits humanity through the use of genetic modification to improve
	crops, medicines, and forestry, but many people still have concerns about the distribution and
	use of these products in agriculture, supermarkets, and hospitals. As of now, the only "rule" of
	biotechnology research forbids artificial cloning of humans.
•	In your paragraph:
	Take a position → Is bioengineering ethical or not?
	o Defend your position
	If it is ethical, provide evidence that it is being used responsibly and justify why
	no additional "rules" are necessary
	If it is unethical, provide evidence of irresponsible use and describe what "rules
	you think should be in place
•	Requirements
	On a separate sheet of paper
	o Typed or NEATLY mandwritten
	 One or more paragraphs using the standard format→ An 8th grade paragraph is at least

8-10 sentences long

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