## Position Paper on Genetic Technology/Bioengineering

The topic of your paper must be chosen from the field of genetics, bioengineering or other related sciences. Some possible topics are listed below. Because new information is added to this area so rapidly, people are confused about how and where or sometimes, if, the new ideas should be used. Sometimes important decisions need to be made before many people understand what is at stake. In this paper you will do research on your topic and take a position based on your findings.

Your paper should be one to two pages in length, typed and double-spaced. You are writing in the first person. You should use "I" to explain your thoughts. The following must be included:

- 1. One or two introductory paragraphs that explain the technology or science. The information should be taken from at least 3 sources. Be sure and list references you use. Look for magazines, the Internet, newspapers or interviews with knowledgeable people to use as references.
- 2. Choose a position to start your next paragraph. You should either support using this technology/science or not. Support your position with logical arguments and inferences. An inference takes an observation and draws a conclusion or extends the observation into the future or other situations. Do not say "I think" in this paragraph.
- 3. The next paragraph should take the opposite position. Once again, support this position with logical arguments.
- 4. Your final paragraph can NOW include your conclusions and opinions. You may start a sentence with "I think". In the process of writing this paper, you may lean more toward one argument than the other. Tell why. If not, discuss in this paragraph why both arguments have merit to you.
- 5. List your references.
- 6. Have a parent or another student edit your paper.

## Possible topics

- Should people live longer? (research on aging)
- Should humans be cloned?
- Should food crops have genetic changes?
- Should human genes be altered? (gene therapy)
- Should people know what genes they carry? (genetic counseling)
- Should animals carry human genes? (genetic engineering)
- Should people be required to have a genetic screening test before getting a job, insurance, marrying, having children?
- Should human growth hormone be available to whoever wants it?
- Should human organs/tissues be grown for replacements?
- Should parents know the genes of the offspring before birth? (pre-natal testing)
- Should parents be able to choose the sex of their offspring? (sex determination)
- Should genes from one animal be transplanted into other animals or plants? (transgenic research)

- Should new species be developed?Should stem cell lines be expanded and used?

## **6 Traits Rubric**

Trait	3	2	1
Voice	Student has effectively	Student has partially	Student shows little
	used first person.	used first person.	evidence of speaking
1.1		lata di ata	in their own voice.
Ideas and	Introductory paragraph	Introductory	Techology/science is
Content	clearly explains	paragraph explains	poorly explained in
	technology/science.	technology/science	introduction. Pro and
	Pro and con	but is not detailed.	con positions are not
	paragraphs contain	Pro and con positions	present or
	supporting details. Final paragraph	are not well supported. Final	unsupported. Final paragraph doesn't
	thoughtfully sums up	paragraph is an	contain students
	and supports student	opinion with little	reasoning that led to
	conclusions.	support.	conclusion.
Organizat	Effective, creative	Clear sequencing,	Poorly developed
ion	sequencing. Easy to	details fit where	ideas and
1011	follow. Strong	placed. Some	explanations. Lack
	beginning and effective	effective transitions,	of transitions,
	conclusion. Good	some supporting	random details.
	transitions.	details are present.	
Word	Accurate and specific	Words chosen work	Language is vague
Choice	words energize the	but do not capture the	or limited in range.
	writing. A broad range	reader's interest.	Message is unclear
	of words have been	Some words are used	because of poor
	chosen.	incorrectly.	word choices.
Conven-	Few errors in	Errors in punctuation,	Many punctuation,
tions	punctuation, grammar	grammar and spelling	grammatical and
	and spelling exist and	do not obscure	spelling errors.
	do not detract from	message but are	Message is obscured
	message. Text is one	noticeable. Text is	by poor conventions.
	page long.	somewhat too short or	Text is not nearly to
01	A (I (	too long.	one page long.
Sentence	A fluent sound, one	A natural sound, but	Significant portions of the text are difficult
Fluency	sentence flows easily	lacks grace and	to follow or read
	into another. Meaning is enhanced through	impact.	aloud.
	flow of ideas.		aiouu.
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