

Discussion Preparation

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Discussion Topic Human Cloning

After reading and annotating the three required articles and at least one optional article, answer the following questions.

What is cloning? What is one example of a clone?

Cloning is the process of generating a genetically identical copy of a cell or an organism.

One example of a clone is Dolly the Sheep.

What is the difference between therapeutic cloning and reproductive cloning?

Therapeutic cloning: To use cloned embryos for the purpose of extracting stem cells from them, without ever implanting the embryos in a womb.

Reproductive cloning: the implantation of a cloned embryo into a real or an artificial uterus.

The Difference: Reproductive cloning involves a womb, and therapeutic cloning doesn't.

Why are scientists skeptical of cloning?

There might be some dangers to cloning.

You've read about some of the dangers of cloning, why is it so dangerous?

- abnormal Y chromosome
- not maintaining embryo viability
- heart cell problems
- genetic mistakes

It is dangerous because it might cause abnormal features to the clone, causing it to die.

What are some of the issues cloned animals can experience? Give me three examples from the article. Genetic mistakes

1. obesity
2. seizures
3. tumors

What are some reasons someone would want a cloned baby?

Someone might want a cloned baby because they want to have babies that genetically match a baby that they have lost.

Choose the three most important questions you have from the texts to ask during the seminar.

Questions-

Example) What is your opinion, should human cloning be banned in the United States?

1. How long did it take to clone Dolly?

Do you agree that people should be able to clone their pets if they pass away?

2. How many species of animals have been cloned?

3. If cloning humans were to become a thing, how much would it cost. Would it be expensive?

During Seminar-

On-Task Behavior- *Prepared for discussion, cooperates with others, productive group work*

4 3 2 1

Contribution- *Use evidence from the text to support your claim/opinion, ask clarifying questions, encourage others*

4 3 2 1

Social Interaction- *Maintain eye contact, take notes, speak clearly, sit still*

4 3 2 1

Final Grade

Teacher Use Only

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After Seminar

State something you did well today

State what you better understand about human cloning now

NOTES