Cloning In Focus WebQuest

In this WebQuest, you will learn about the process of cloning and its applications. You will explore the ethical considerations and implications of cloning technology.

1. Introduction
   - What is cloning?
   - Why is cloning important?

2. Cloning Process
   - Define the terms: donor cell, recipient cell, cloning vector.
   - Describe the steps involved in cloning.

3. Ethical and Social Implications
   - Discuss the potential benefits and risks of cloning.
   - Analyze the ethical concerns associated with cloning.

4. Case Studies
   - Analyze the implications of cloning in real-world scenarios.
   - Evaluate the impact of cloning on society.

5. Conclusion
   - Reflect on your understanding of cloning.
   - Discuss the future of cloning technology.

Resources
- Cloning In Focus WebQuest
- Genetics: The Science of Heredity
- Human Cloning: Ethical and Social Implications

Instructions
- Work in groups of 3-4.
- Complete the WebQuest online.
- Submit your answers by the due date.

Questions
- How does cloning benefit scientific research?
- What are the ethical implications of cloning embryos for research?
- How might cloning impact the future of medicine?

Answers
- Cloning
  - A process that involves the transfer of a cell nucleus from one organism to another, resulting in a genetically identical copy.

Ethical Considerations
- Cloning raises significant ethical questions, including the potential for Creating a “designer baby” and the risk of eroding human dignity.

Future Directions
- The development of new cloning techniques and the potential for more advanced applications.

Conclusion
- Cloning is a complex and rapidly evolving field, with ongoing debates about its ethical and social implications.

For more information, visit the following resources:
- Cloning in Focus WebQuest
- Genetics: The Science of Heredity
- Human Cloning: Ethical and Social Implications