

Title: Genetics/Cloning

Post Secondary: Science major

Difficulty of Class: 100 level range

Overview	<ul style="list-style-type: none"><li>• The purpose of this lesson is to inform and educate students about cloning.</li><li>• Students should learn the different types of cloning and the risks of this controversial procedure.</li></ul>
Objective	<ul style="list-style-type: none"><li>• After students have been introduced to different topics on cloning and viewing Qik videos with interaction about aspects of cloning, the students will be able to participate in a class discussion about cloning and write an essay pertaining the technology of cloning.</li></ul>
Material	<ul style="list-style-type: none"><li>• Series of articles</li><li>• Paper</li><li>• Writing utensils</li><li>• Internet access</li></ul>
Standards	Applies to ISTE standards 4A and 4C <ul style="list-style-type: none"><li>• 4A: Advocate, model, and teach safe, legal, and ethical use of digital information and technology, including respect for copyright, intellectual property, and the appropriate documentation of sources.</li><li>• 4C: Promote and model digital etiquette and responsible social interactions related to the use of technology and information.</li></ul>
Procedure	<ol style="list-style-type: none"><li>1. The professor will introduce cloning and inform the students about the issue.</li><li>2. The professor can use articles as an aid for discussion and assign students to read certain articles.</li><li>3. The students will meet in a computer lab; here they will be able to watch a staff member from the "Center for Genetics and Society" talk about cloning.</li><li>4. <a href="http://www.geneticsandsociety.org/article.php?list=type&amp;type=10">http://www.geneticsandsociety.org/article.php?list=type&amp;type=10</a> (Center for Genetics and Society information)</li><li>5. After the video, students must participate with the "live chat" feature and ask the staff member questions on different aspects of cloning.</li></ol>

	<p>6. Students will bring the knowledge learned back to class for a meaningful discussion.</p>
<p>Evaluation</p>	<ul style="list-style-type: none"> <li>• After the discussion about cloning, the students will be assigned one of these specific topics: Therapeutic Cloning, Reproductive Cloning, and Recombinant DNA Technology/DNA Cloning.</li> </ul> <p>___/25 : Participated actively in both the “live chat” and discussion with in class. The student included meaningful aspects in the discussion, which aided other students understanding of cloning</p> <ul style="list-style-type: none"> <li>• ___/25 : The students are to write an essay about the topic and answer the following questions: <ul style="list-style-type: none"> <li>-How can cloning technologies be used?</li> <li>-Have there been animals cloned, if so which animals?</li> <li>-Is it possible for organs to be cloned? Explain.</li> </ul> <p>The essay meets the requirements for these questions and uses examples from class discussion to further answer the questions. No grammatical errors.</p> </li> </ul>