

Title: DNA

Post Secondary: Science Major

Difficulty: 100 level range

Overview	<ul style="list-style-type: none">• The purpose of this lesson is for students to understand the importance of Deoxyribonucleic Acid (DNA).• Students should learn what DNA consists of and the importance of it.
Objective	<ul style="list-style-type: none">• Once the students have viewed the Qik video using the “live chat” feature and have been lectured about DNA, students will be able to take a 5 question quiz about when DNA was founded and the effects it brought to our society.
Materials	<ul style="list-style-type: none">• Textbooks• Internet access• Articles• Writing utensils• Notebook
Standards	Applies to ISTE standards 2D and 2B <ul style="list-style-type: none">• 2B: Develop technology-enriched learning environments that enable all students to pursue their individual curiosities and become active participants in setting their own educational goals, managing their own learning, and assessing their own progress.• 2D: Provide students with multiple and varied formative and summative assessments aligned with content and technology standards and use resulting data to inform learning and teaching.
Procedure	<ol style="list-style-type: none">1. A presentation about DNA will be given (using PowerPoint).2. The professor will cover:<ol style="list-style-type: none">a. -What is DNA?b. -What IS DNA made of?c. -What does DNA do?d. -What is the DNA “double helix”?

	<p>e. -How are DNA sequences made to make proteins?</p> <p>f. -What is the Human Genome project?</p> <p>3. The students will be divided into groups and meet in the computer lab.</p> <p>4. The professor will explain to the class that he/she has organized a video to be streamed to Qik from a scientist that specializes in DNA.</p> <p>5. The scientist will discuss DNA briefly and stream it to Qik.</p> <p>6. Then the students can participate in the “live chat” and ask the scientist any questions.</p> <p>7. Qik allows videos to be streamed in seconds so this discussion could be very beneficial.</p> <p>8. Each group will be able to use Qik and when everyone is finished there will be a class discussion, followed by a quiz.</p>
<p>Evaluation</p>	<ul style="list-style-type: none"> The students will be given a quiz over DNA. The quiz will consist of 5 short essay questions. The questions will test the students on what they should have learned while participating in the DNA discussion. <p>___/ 30</p> <p>Each question is worth 10 points</p> <p>Total : ___/30</p>