Genetics Project

Learning Target: Create and support a claim regarding the overall benefit or harmfulness of a current issue/topic in genetics and genetic engineering/technology.

Step One: Fill out the <u>planning page</u> for your topic. (20 pts – Assignment grade)

Step Two: Decide how you will present your evidence and reasoning for your claim about your genetic issue. Your options for doing this are:

1. VIDEO – Your video could be live action, animated, or a combination of media. Use a program that you are familiar with to create your video (imovie, PowToon, Flipgrid, etc.) Video should be 90-120 seconds in length.
2. 3-D POSTER – Design a 3-D poster on a tri-fold board (you must provide) with text, diagrams, and pictures.
3. INTERACTIVE PRESENTATION – Create an interactive presentation (include video, pictures, text, graphs/charts)

If you have a different idea than one listed, ask your teacher before you begin. * You will have three class sessions to work on your project, but you may also need to work on this at home.* (30 pts – Assessment grade)

BE PREPARED TO PRESENT YOUR PROJECT!

GENERAL IDEAS (You must use a specific example for your project):

Genetically Modified Foods	Artificial Selection/Breeding
Transgenic Animals/Plants	Gene Therapy
Cloning	

4	3	2	1
Student's project meets the learning target by:	*Student's project meets the learning target by:*	*Student's project partially meets the learning target by completing 3 of the following 4 areas:*	*Student's project partially meets the learning target by completing 2 or less of the following areas:*
• Providing background information of technology/issue, including how it is used, or the process involved, as well as the status of the research/restrictions	• Providing background information of technology/issue, including how it is used, or the process involved, as well as the status of the research/restrictions	• Providing background information of technology/issue, including how it is used, or the process involved, as well as the status of the research/restrictions	• Providing background information of technology/issue, including how it is used, or the process involved, as well as the status of the research/restrictions
• Multiple benefits/harmful effects of technology/issue, including future implications	• Multiple benefits/harmful effects of technology/issue, including future implications	• Multiple benefits/harmful effects of technology/issue, including future implications	• Multiple benefits/harmful effects of technology/issue, including future implications
• Describes ethics involved: what are potential controversies	• Describes ethics involved: what are potential controversies	• Describes ethics involved: what are potential controversies	• Describes ethics involved: what are potential controversies
• Making a claim stating the overall benefit or harmfulness of the technology/issue	• Making a claim stating the overall benefit or harmfulness of the technology/issue	• Making a claim stating the overall benefit or harmfulness of the technology/issue	• Making a claim stating the overall benefit or harmfulness of the technology/issue
• Providing evidence and reasoning to support claim	• Providing evidence and reasoning to support claim	• Providing evidence and reasoning to support claim	• Providing evidence and reasoning to support claim

PROJECT PLANNING PAGE
TOPIC: _____

DESCRIPTION	
PROCESS/HOW IT IS USED	
STATUS OF RESEARCH	
HOW IT IS USEFUL/HELPFUL	
PROS	
CONS	
ETHICS/FUTURE IMPLICATIONS	