**Lesson Planning Template**

**Grade**: 12 **Time Frame**: 2 hours **Date**: November 18, 2015

**Title**: Genetics Presentation **Subject**: Biology 30

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| **Stage 1 – Desired Results** | |
| **Established Goals:**  *Students will…..*  Foundational Learning Objective 3.2 (discussing examples of current uses of DNA in agriculture and pharmaceutical industries)  Foundational Learning Objective 2.9 (Discuss several human genetic disorders)  Foundational Learning Objective 3.3 (discuss the techniques of genetic screening). | |
| **Understandings:**  *Students will understand that…*  *A broad understanding of genetic disorders in human and some genetic issues that are relevant to society* | **Essential Questions:**    What is genetic testing  What are some genetic disorders?  What are the symptoms?  Is there any screening that can be done?  What are GMO’s?  How is this process completed? |
| **Students will know…..**  Genetics is a complex area to study that needs to investigated further. | **Students will be able to do**………    Identify some genetic disorders and be able to discuss why they occurred. |
| **Stage 2 – Assessment Evidence** | |
| **Performance Task:**  **Presentation – Students will present their findings to their peers enriching their peers understandings of genetic disorders/issues.** | **Other Evidence:**  **Observational**  **Through helping students research information** |
| **Stage 3 – Learning Plan** | |
| **Learning Activities: (WHERETO elements)**  What learning experiences and instruction will enable students to achieve the desired results?  W = Help the students know Where the unit/lesson is going and What is expected? Help the teacher know where the students are coming from (prior knowledge, interests)?  H = Hook all students and Hold their interests  E = Equip students, help them Experience the key ideas and Explore the issues  R = Provide opportunities to Rethink and Revise their understandings and work  E = Allow students to Evaluate their work and its implications  T = Be Tailored (personalized to the different needs, interests, and abilities of learners?  O = Be Organized to maximize initial and sustained engagement as well as effective learning.  Materials: Rubric, assignment, computers  Hook – introduce Still Alice – your mother was diagnosed with early onset alzheimers, you have the option of being testing to see if you carry the gene, would you take the test?  1) Introduce the presentation and rubric ( 5 minutes)  2) Have students select a topic and write it on the board so there are no duplicates  3) Give time to work on assignment – set due date.  4) exit slip- 1 minute paper – write down everything you have learned today, include one question you have.  5) During presentation have students write down something new they learned for each presentation. | |