**Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Pd:\_\_\_\_\_\_\_\_**

**DNA Technology/Biotechnology Activity**

**Directions: Choose from one of the forms of biotechnology on the 2nd page and research it to create a flyer (piece of white or colored paper). Your flyer must include the information on this rubric. You will then create a short video that summarizes your information.**

|  |  |  |
| --- | --- | --- |
|  | **Total Points** | **Points Earned** |
| **Product (Poster OR Flyer)** |  |  |
| Description of the process | **3** |  |
| Importance (How is it used in agriculture, medicine or forensics?) | **3** |  |
| Real World Example and explanation (Current event or news example) | **2** |  |
| Pictures included (AT LEAST 2- including illustration of process) | **3** |  |
| Creativity and Neatness (Font size readable and legible) | **3** |  |
| Information was SUMMARIZED in your own words! | **2** |  |
| **Product Points** | **16** |  |
| **Presentation of Information** |  |  |
| Knowledge of technique (Did not READ the poster) | 1 |  |
| Easy to understand information | 1 |  |
| Audience engagement (Eye contact, enthusiasm, professional) | 1 |  |
| Participation-All members spoke/presented | 1 |  |
| **Presentation Points** | **4** |  |
| **Total Classwork Points** | **20** |  |

**Forms of Biotechnology**

1. **Restriction Enzymes (study guide questions #38 and 39)**

* **Ex. EcoR1**

1. **Gel Electrophoresis (study guide question #40)**
2. **Recombinant DNA Technology (study guide question #42)**
3. **Cloning (study guide questions #36-37)**
4. **Gene Sequencing**
5. **Polymerase Chain Reaction (PCR)**
6. **Selective Breeding (Artificial Selection)**
7. **Transgenic Organisms (study guide question #35)**
8. **Gene Therapy (study guide question #41)**
9. **Genetic Engineering (study guide questions #33-34)**