**DOMESTICATION STATION**

**Instructions: Record your observations for each of the plants included on the flashcards at both of the stations (one for domestication, Green Revolution, genetic modification).**

|  |
| --- |
| **GENERAL QUESTION:**What are the common changes/modifications you noticed across the flashcards for this era?  |
|  | **OBSERVATIONS** **(example: size, similarities, differences)** | **WHAT TRAITS DO YOU THINK WERE MODIFIED?** |
| **CORN** |  |  |
| **POTATO** |  |  |
| **RICE** |  |  |
| **BANANA** |  |  |
| **WATERMELON** |  |  |
| **CARROT** |  |  |
| **COTTON** |  |  |
| **Global Diagram:**  | What similarities and differences do you notice about where foods were originally produced versus where they are grown during modern times? |
|  |

**GREEN REVOLUTION STATION**

**Instructions: Record your observations for each of the plants included on the flashcards at both of the stations (one for domestication, Green Revolution, genetic modification).**

|  |
| --- |
| **GENERAL QUESTION:**What are the common changes/modifications you noticed across the flashcards for this era?  |
|  | **OBSERVATIONS (example: size, similarities, differences)** | **WHAT TRAITS DO YOU THINK WERE MODIFIED?** |
| **RICE** |  |  |
| **WHEAT** |  |  |
| **WHEAT YIELD GRAPH** | How did the Green Revolution (1950-1970) impact wheat yields?   |
|  |
| **INDEX OF CEREAL PRODUCTION GRAPH** | How has cereal (wheat, rice, and other grains) production changed over time in comparison with global population and land under cereal production?   |
|  |
| **WORLD FOOD PRODUCTION AND LAND CULTIVATED FOR FOOD GRAPH** | What are a few reasons that could support why food production has increased while the land area that food is cultivated on has remained relatively the same?  |
|  |

**GENETIC MODIFICATION STATION**

**Instructions: Record your observations for each of the plants included on the flashcards at both of the stations (one for domestication, Green Revolution, genetic modification).**

|  |
| --- |
| **GENERAL QUESTION:**What are the common themes you noticed across the flashcards for this era?  |
| **Adoption of genetically engineered crops in the United States graph** | What does this graph tell you about how quickly or not quickly farmers planted genetically engineered crops? Were some crops accepted more than others? |
|  |
| **Percentage of U.S. Acres Sprayed with Glyphosate** | How did the introduction of herbicide resistant genetically modified crops influence the use of glyphosate on farms in the U.S.? |
|  |
| **Genetically Modified Salmon** | What physical similarities and differences do you notice about the GM and farmed salmon? |
|  |
| **Percent of acres of U.S. farmland that is planted with genetically modified crops** | What genetically modified species are most commonly planted in the U.S.? |
|  |
| **Genetic modification process with Bt protein** | Describe the process of developing genetically modified plants using your own words.  |
|  |
| **The history of genetic modification in crops**  | Why do you think domestication and breeding are included in this timeline about the history of genetic modification in crops?  |
|  |