Agriculture and GMOs Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Per: \_\_\_\_

Chapter 10 Date: April 1, 2019

#1 Outline Notes

Directions: Use the power point notes to answer the following questions. This is due at the END of class. Please turn your paper and the class set of notes into Mrs. Gordon.

Produce food through technology (4)

1. 3.

2. 4.

**Difference between:**

|  |  |  |
| --- | --- | --- |
| **Undernourishment** | **Overnutrition** | **Malnutrition** |
|  |  |  |

**Green Revolution**

Depends on what (4 things)? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Positive Effects on NATURAL resources (2)

Negative Effects on NATURAL resources (4)

**Monoculture:** Def: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Good (1) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Bad (2) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Difference between pests and weeds**.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**How do pests become resistant to pesticides?**

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Biological Control:**

What is it? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

How can it go wrong? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**IPM: What’s it stand for?** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**List 7 techniques**

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_



**Save the bees! But how (2)?**

1.

2.

GMOs

|  |  |
| --- | --- |
| Benefits (4) | Risks (2) |
|  |  |

Things Biotechnology has done(3):

What are the arguments for Agricultural breeding? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Impacts of GM crops**

1.

2.

3.

4.

5.

**What do the nations say:**

US?

Brazil, India, & China?

Zambia?

**Why preserve crop diversity (3)?**

**Ways to preserve crop diversity: Seed Banks**

Describe it?

Issues with it?

Feedlots, Aquaculture, Organic Farming

Chapter 10

#2 Outline Notes

**Feedlots**

What is the relationship between commerce and consumption of meat?

CAFO is an acronym for:

|  |  |
| --- | --- |
| Benefits (3) | Drawbacks (3) |
|  |  |

Based on energy, why should we all eat as low on the food chain as we possibly can?

Which animal converts grain into meat most efficiently?

Why does producing beef require the MOST space and water instead of chicken?

Reflection: What choices can you make per day or week to decrease your consumption of food?

**Aquaculture**

Why were “fish farms” created and why are they growing rapidly? (2)

|  |  |
| --- | --- |
| Benefits | Drawbacks |
|  |  |

**Organic Farming for Sustainability**

Differences between less-intensive agricultural methods

|  |  |  |
| --- | --- | --- |
| Sustainable  | Low-input | Organic |
|  |  |  |

Market for organic food is increasing stats:

1.

2.

3.

|  |  |
| --- | --- |
| Benefits for FARMERS | Benefits for CONSUMERS |
|  |  |

How did the **European Union** help farmers to convert to organic farming?



Why **haven’t** US farmers converted?

Why has organic agriculture succeeded in **cities**?

What is **community-supported agriculture** and **why** would people actually do this?

What is the name of such places in Warner Robins?