**Bozeman Science: Agriculture** Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Directions: Complete the thinking map (they will show it again at the end) and answer the questions found on the back of this handout. <https://www.youtube.com/watch?v=OGf04jPEaT0>

Please answer the questions based on the video.

1. What is the green revolution?

Characteristics of Industrial Agriculture

1. What is monocropping?
2. Why would someone want to have a monoculture?
3. What are 2 drawbacks to having a monoculture?
4. How does contour farming prevent soil erosion?

Irrigation

1. Problems with irrigation? Deplete the Ogallala Aquifer and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. List 3 ways to prevent soil salinization.

Pesticides

1. Why use pesticides?
2. 2 problems with using pesticides? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and Resistance
3. Explain how resistance to pesticides happens.

Fertilizers

1. What does NPK stand for?
2. Problems with using fertilizers?
3. Describe why planting corn and beans together would solve the problems of using fertilizers.

GMOs

1. Why was Vitamin A injected into rice?

Goal is to get BACK to **SUBSISTENCE** farming!!!!!!