

## **FROM ROWS OF CORN TO SMART PHONES: Making *cause and effect* connections from the past to the present**

In the space below are 18 different factors that were discussed in the dvd “Guns, Germs and Steel” to explain how ancient *hunter-gatherers* were able to evolve into modern humans with advanced *technologies*. With a partner, you will organize these 18 factors based on the *cause and effect* relationships you identify between them. Look for connections and be able to explain WHY the factors fit together in the way you organized them. THERE ARE MULTIPLE CORRECT WAYS TO ORGANIZE THESE FACTORS based on the connections you and your partner see. Each factor has to “connect” in a logical way to another factor. *Cause and effect* is NOT RANDOM! Draw lines to connect the items. The next step is to determine the order in which these events occurred. Think of a series of dominoes standing on end – which one of these items would be the first to fall and set off the chain reaction which causes the others to fall in order? Mark the first factor to begin your journey from corn to the iPhone!

“Best” Plants

Development of *Agriculture*

Wheat / Barley

Advanced Civilization

Larger Populations

“Best” Animals

More Time

Similar Latitude

Guns

*Natural Resources*

*Technology*

Horse, Pig, Sheep, Goat, Cow

Location

Extra Workers

Knowledge of Metal making

Development of Writing

Climate

*Domestication*

Which of the following are the **MOST IMPORTANT FACTORS** from “Guns, Germs and Steel”? Circle the factors you think are **MOST** important.

Which of the following are ideas which support the **IMPORTANT FACTORS**? Draw a line to connect them to the **IMPORTANT** factor they support.

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From the list above (the same one you used in the previous class), circle between 5 and 10 factors that you believe are the **MOST IMPORTANT** ideas from your study of “Guns, Germs and Steel”. These are your “big box” ideas in your Flow Map. These should include the factors that had the most lines drawn to them when you made connections in the last class. You will **USE ARROWS** to show the **CONNECTION BETWEEN FACTORS** and represent the “flow” or order in which these “big box” factors **HAD TO OCCUR**. Remember the idea of *cause and effect* – events don’t happen randomly. There is a reason that some events happen before others! The remaining factors from your list will be the “small box” ideas that are examples or related to the “big box” factors. Notice that not all “big box” ideas have small boxes attached to them. Once all 18 of the factors are on your Flow Map (you should have a combination of 18 big and small boxes!), you will **ILLUSTRATE** your factors with images that visually represent the importance and details related to at least 9 different factors. You do not need to color your illustrations, but you need to have a drawing that represents 9 different factors.

# **From Corn to Smart Phones: An Illustrated Flow Map of “Guns, Germs and Steel”**