Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Date\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_You have already read the online article titled “Climate Forecasting and Adaptation through the Ages” and answered some multiple choice questions. We are going to be working with that article tomorrow, so in preparation for class, please do the following:

1) Reread the article.

2) When you are finished rereading the article, respond to the following questions. (These questions are the same ones in the article.) You don’t need to write in complete sentences unless you want to. **While I encourage you to work with other people in the class and brainstorm, *you* need to be an active thinker so that you have something to contribute to class tomorrow!**

1- List as many conditions as you can think of that might affect the appearance of a star or group of stars on the horizon. (There may be more than were discussed in the article.)

2- Based on the article and your understanding of food production, brainstorm and list as many factors as you can that might affect a crop yield (amount of crops produced in a particular year).

3- Orlove examined 8 years of cloud data and crop yields in the high Andes and found a very good correlation between them. Do you consider this to be enough evidence that the Inca forecasting method works? Why or why not?

4-The Incan forecasting method is based on the idea that there are clouds in some years and not in others. List all the factors you can think of that might affect how well clouds can form off the west coast of Peru. What do you think are the most important factors? (Remember, this is very near the equator.)

5- Unlike for the Incas, we have no evidence that the Mayans were able to make weather or climate forecasts. Had they been able to make a long-term forecast, do you think it would have made much of a difference in the survival of their civilization?

6- Much of our understanding of the climate history of the Mayan region comes from data collected in lake sediments. Can you think of other things that might serve as indicators of past climates?

7- What factors can you think of that might affect rainfall in this region of Mexico?

8- What factors seem to be important in whether a culture can adapt to changes in climate?

9-Over how long did climate changes in Greenland occur? Do you think the changes are something you would notice on a year-to-year basis?