Monday

Literacy Investigation

1. **In what year was acid rain first classified?**
2. **What location was this environmental problem identified?**
3. **What impact did it have on the forest?**

Core Vocabulary:

4. **_____describe the physical characteristics (habitat, climate, ecosystems, land mass) of an area.**
5. **_____ rain that has a combination of sulfur and nitric oxide.**
6. **_____ forest in Germany that has been impacted by acid rain.**

On your map create a Compass Rose and Legend. Create a graphic that represents acid rain and place it on the correct country.

Tuesday

Literary Investigation

1. What two elements combine to make Acid Rain?
2. Identify four things that contribute to Acid Rain: _____ _____ _____ _____
3. Why does Acid rain not stay in one location? _____ _

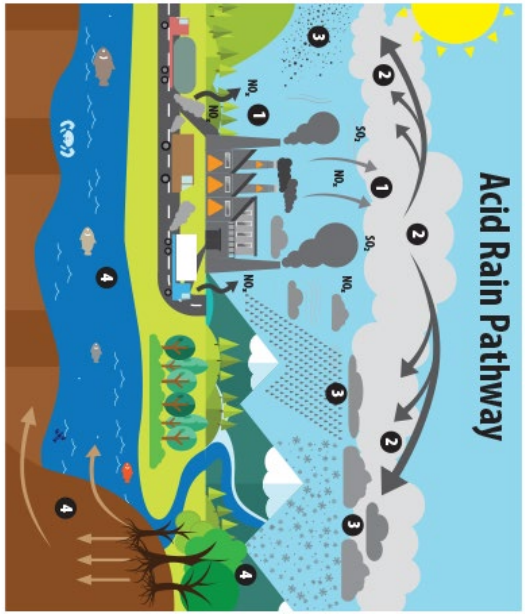
Vocabulary

Precipitation _____

Phenomenon _____

Atmospheric _____

On the Map Identify 1,2, and 3.



Wednesday

Literary Investigation

If you were a scientist what evidence would you be looking for to identify acid rain?

What are the long term consequences of acid rain?

What factors make acid rain an issue for many countries in Europe?

What is the impact of acid rain. Create a sentence that explains the beginning and end of acid rain. _____
_____
_____
_____

Label: Belgium, France, Germany, Italy, Poland, Russia, Spain, Ukraine, and United Kingdom.

Thursday

Literary Investigation

Acid rain harms wildlife, and while most acid precipitation studies focus on aquatic animals, the forests are not immune to the effects of acid rain.

What inference can be made about what has also been impacted by acid rain?

_____

In 7 words or less summarize this sentence.

_____ _____ _____

_____ _____ _____

_____

Vocabulary:

Draw a picture that explains the following words:

Precipitation	
Acid Rain	
Wind Current	

Create a news title that summarizes the impact of acid rain on the Black Forest .

_____

_____

_____

Friday

Literary Investigation

Why would a political map be better for traveling in a city or state that a physical map?

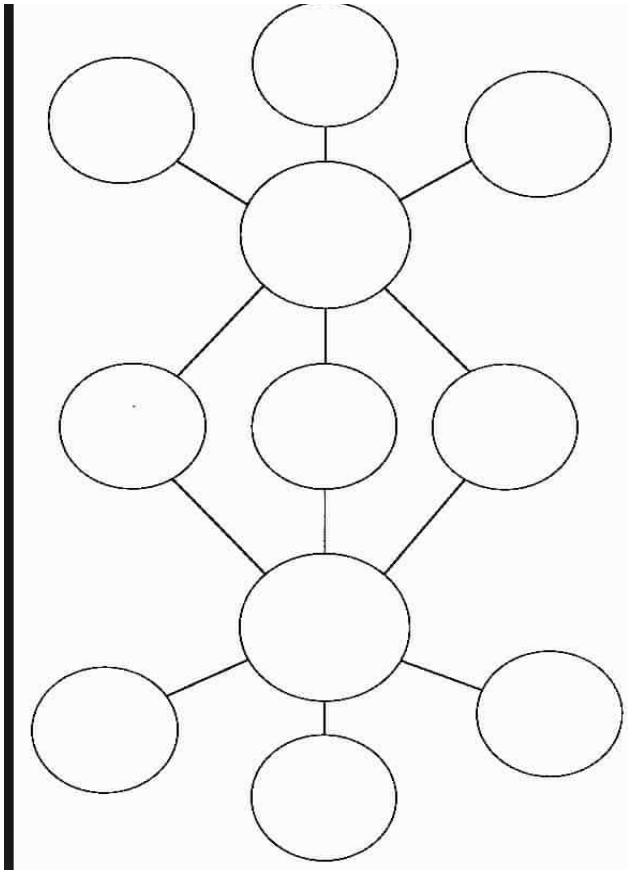
Why would having two different types of maps be important? _____

_____

_____

_____

Compare a political map to a physical map



Article for the Week

By Cara Batema July 2019

As early as the 1960s, scientists observed evidence of tree damage from acid rain and other environmental pollutants in the Black Forest of Germany. First termed Waldsterben, or tree death, this phenomenon caused damage to nearly half of all trees in the Black Forest by 1990. Acid rain harms wildlife, and while most acid precipitation studies focus on aquatic animals, the forests are not immune to the effects of acid rain.

Acid rain is actually a general term for any sort of acidic precipitation. This means the acid rain definition includes rain, snow, fog, hail and/or dust that contains acidic compounds..

Acid rain is caused when (sulfur dioxide) or nitrous oxide enter the atmosphere. This is usually through the burning of fuels, industrial emissions, oil refineries, power generators and other manmade machinery/manufacturing. These then combine with water and other atmospheric gases to grate sulfuric and nitric acid within the precipitation.

The source of these emissions don't need to be close in proximity to cause acid rain: wind and water currents can carry these pollutants across the globe and cause acid precipitation in far away places