

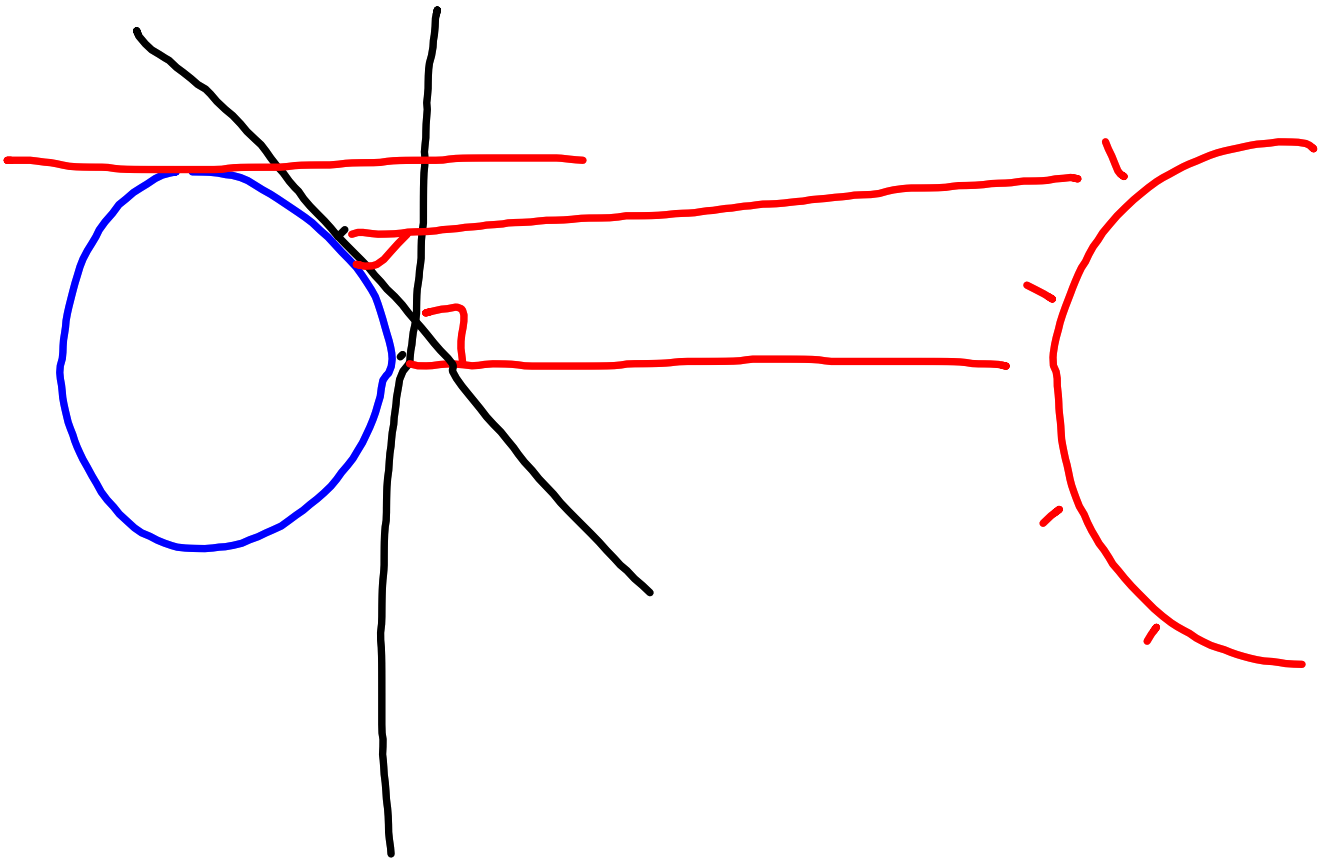
## Warm Up 7: Climate Change

10-31-18

LT I can state some possible factor that create climate change and the impacts they have.

Q1 How does latitude impact climate?

Q2 How can regions on the same latitude have different climate?



## Warm Up 7: Climate Change

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Q1 How does latitude impact climate?

A1 The Sun's rays hit the Earth at different angles that align with the different latitudes. Areas on the same latitudes that share similar climates.

Q2 How can regions on the same latitude have different climate?

A2 Different topography can change climates even though they are receiving the Sun's rays at the same angle or intensity.

Lab: Influences on Climate

ask neighbors 1 min, ask LeMay

HW 8 SG

ask neighbors 1 min, ask LeMay

## Notes 5: Climate Change

### 10-31-18

Climatologist: Scientist that study Climate change.

#### I. Studying Climate Change

##### A. Methods of studying past climate

~~Paste Table 1 here~~

- 1) Ice Cores
- 2) Sea-floor sediment
- 3) Fossils
- 4) Tree Rings
- 5) Speleothems

## Notes 5: Climate Change

B. Factors that are measured while studying climate change

- 1) Temperature
- 2) Precipitation
- 3) Wind Patterns
- 4) Sea-Levels

C. Interactions Studied between

Oceans, wind, land, clouds and vegetation

## Notes 5: Climate Change

### II. Potential Causes of Climate Change

#### A. Plate Tectonics

1) different latitudes have different climate, if the continents move to different latitudes we would expect different climates

#### B. Orbital Changes

##### 1) Milankovitch theory

a. The orbit of the Earth changes from elliptical to circular

b. the tilt of the earth shifts, causing extreme seasons with greater tilt.

## Notes 5: Climate Change

### C. Volcanic Activities (large eruptions)

- 1) Ash that blocks the Sun's energy
- 2) Release of Sulfur, reflects sunlight back into space

### D. Human Activity

- 1) Burning Fossil fuels releases CO<sub>2</sub>  
green house affect
- 2) Removal of Trees  
Cutting down trees for farming or housing  
reduces the natural removal of CO<sub>2</sub>



4) HW 6: Reading p 611-4 p614 1-8

## Warm Up 7: Climate Change 10-31-18

LT I can state some possible factor that create climate change and the impacts they have.

Q1 How does latitude impact climate?

Q2 How can regions on the same latitude have different climate?

Q3 State some possible factors that create climate change.

Q4 What are some potential impacts of climate change?

## Warm Up 7: Climate Change

10-31-18

LT I can state some possible factor that create climate change and the impacts they have.

Q3 State some possible factors that create climate change.

A3 Plate Tectonics, Orbital Changes, Human Activity, Volcanic Activity

Q4 What are some potential impacts of climate change?

A4 Increased evaporation, resulting in some regions being drier and others getting more rain. Increased Water levels, polar ice caps could melt resulting in changing coastal lines.

Get your designated computer and start working on your Climate Research.

We will finish this on Tuesday and will be due on Wed.

To be graded by LeMay on Tuesday

1. Lab: Influences on Climate
2. HW 6: p614 1-8