

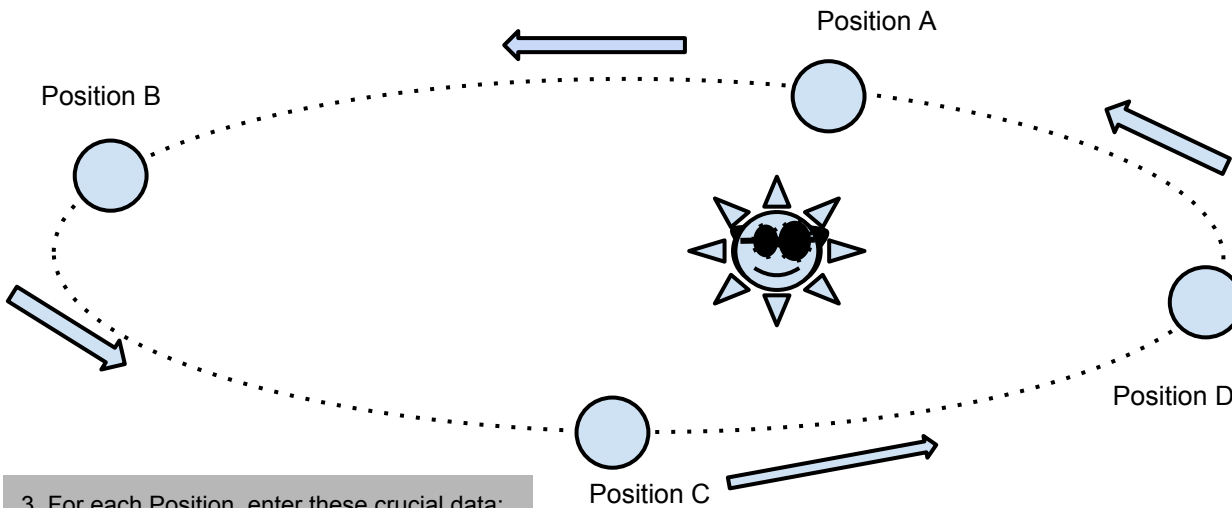
Unit 2: Seasonal Variation

Name: _____

Date: _____ Period _____

Learning Outcome: Demonstrate your understanding of the causes and effects of seasonal variation by diagramming Earth's solstices and equinoxes and noting pertinent seasonal data about a selected location on Earth: Toledo, OH

INSTRUCTIONS: Complete the diagram below by drawing in the axis of the Earth and the Tropics of Capricorn and Cancer at each position. (Note: the northern hemisphere is at the top.) Then fill in data about each Solstice/Equinox position. Then write a summary describing 1) what causes seasonal variation and 2) what the effects of seasonal variation are on Toledo, Ohio.



3. For each Position, enter these crucial data:

Position A
 Solstice/Equinox _____
 Common Name _____
 Date(approx.) _____
 # of hours of Sunlight _____
 Avg, daytime temp (in F°) _____
 Avg precip & type (in") _____

Position B
 Solstice/Equinox _____
 Common Name _____
 Date(approx.) _____
 # of hours of Sunlight _____
 Avg, daytime temp (in F°) _____
 Avg precip & type (in") _____

Position C
 Solstice/Equinox _____
 Common Name _____
 Date(approx.) _____
 # of hours of Sunlight _____
 Avg, daytime temp (in F°) _____
 Avg precip & type (in") _____

Position D
 Solstice/Equinox _____
 Common Name _____
 Date (approx.) _____
 # of hours of Sunlight _____
 Avg daytime temp (in F°) _____
 Avg precip & type (in ") _____

1. Enter these crucial data and then draw the axis and tropics at each position:

The axis of the Earth is offset from the Solar plane by _____°.

Therefore, the tropics of Capricorn and Cancer are offset from the equator by _____°.

2. Mark this Location on each position:

TOLEDO, OH

Latitude (in ° N) _____

Climate Zone: _____

4. Write a Summary Statement: 1) What causes seasonal variation? 2) What are the effects of Seasonal Variation on Toledo, OH?
 (Continue on back, as needed.)