Name:	
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FOSS Seasons Simulation:

Directions: In Google, type in FOSS seasons simulations; it will be the first link that appears. Using the Seasons simulator, play the simulation and fill in the information on the charts for the following locations.

Quito, Ecuador -0^0

Month	Hours of	Average Temp	Light Intensity –	Season	Equinox or	What Latitude
	Light		Direct or Spread		Solstice	Line is the Sun
	_		Out			directly pointing at
March 21 st						
June 21 st						
September 21						
December						

Berkley, $CA - 38^{\circ}$ North

Month	Hours of Light	Average Temp	Light Intensity – Direct or Spread Out	Season	Equinox or Solstice	What Latitude Line is the Sun directly pointing at
March 21 st						
June 21 st						
September 21						
December						

Auckland, New Zealand – 37⁰ South

Month	Hours of Light	Average Temp	Light Intensity – Direct or Spread Out	Season	Equinox or Solstice	What Latitude Line is the Sun directly pointing at
March 21 st						
June 21 st						
September 21						
December						

Stockholm, Sweden – 59⁰ North

Month	Hours of Light	Average Temp	Light Intensity – Direct or Spread	Season	Equinox or Solstice	What Latitude Line is the Sun
	8		Out		Doubling	directly pointing at
March 21 st						
June 21 st						
September 21						
December						

Punta Arenas, Chile -53^{0} South

Month	Hours of Light	Average Temp	Light Intensity – Direct or Spread	Season	Equinox or Solstice	What Latitude Line is the Sun
			Out			directly pointing at
March 21 st						
June 21 st						
September 21						
December						

Conclusion Questions: Answer the following questions in complete sentences.

- 1. From the data, how can one tell an area might be experiencing their summer season?
- 2. From the data, how can one tell an area might be experiencing their winter season?
- 3. Describe the trends in day length and temperature for the city of Quito, Ecuador.
- 4. Describe the trends in the day length and temperature data for both Berkley, CA and Stockholm, Sweden. Although they have differences in their data, are the two experiencing the same seasons at the same time or opposite seasons and what data supports your claim?
- 5. Describe the trends in the day length and temperature data for Auckland, New Zealand and Punta Arenas, Chile. Although they have differences in their data, are the two experiencing the same seasons at the same time or opposite seasons and what data supports your claim?
- 6. Compare and contrast the data for Berkley, CA and Auckland, New Zealand. Are the two cities experiencing the same seasons at the same time or opposite seasons at the same time?
- 7. Compare and contrast the data for Stockholm, Sweden and Punta Arenas, Chile. Are the two cities experiencing the same seasons at the same time or opposite seasons at the same time?
- 8. What accounts for differences in seasons in the Northern Hemisphere and Southern Hemisphere?
- 9. How does light intensity, in relation with Earth's axis tilt, help create differences in areas seasons?
- 10. If the Earth was not tilted, would we still experience differences in seasons between the Northern and Southern Hemispheres? Why or Why not?