

Intensity is determined by the angle at which the light strikes the Earth = angle of Insolation (INcoming SOLar radiATION)

Less energy per m²

More energy per m²

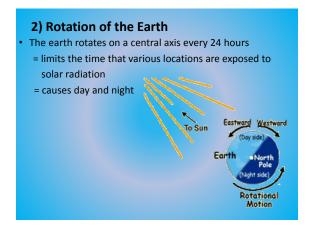
The angle of Insolation is greater at the poles than at the equator

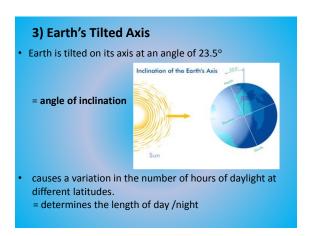
This creates climatic zones which are divided by specific latitudes

Polar Zones: cold climates Temperate Zones: warying temperatures Tropical Zones: warm climates

Tropical Zones: warm climates

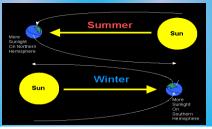
The polar zones have 24 h of darkness during parts of the winter & 24 h of sunlight during parts of the summer.

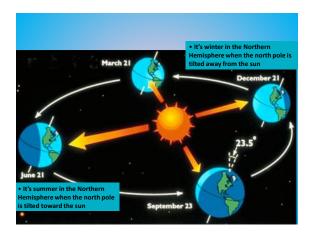




4) Earth's Elliptical Orbit

- The Earth revolves around the sun in an elliptical orbit.
- Combined with the tilt of the earth, this allows certain parts of the Earth to be closer to the sun at different times of the year.





Earth's daily rotation, yearly revolution and its tilt on its axis (angle of inclination) cause the seasons



 The seasons in the two hemispheres are opposite; when it is summer in the Northern Hemisphere it is winter in the Southern Hemisphere.

http://www.youtube.com/watch?v=rcquRMaVSKU