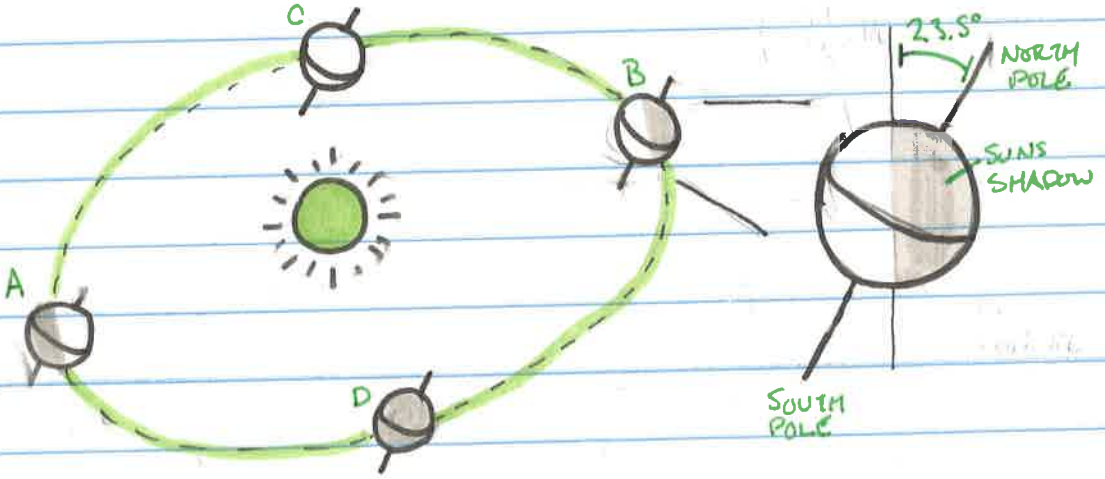
seasons

- 4 PARTS
  - ↳ ROTATION OF THE EARTH (SPIN)
  - ↳ REVOLUTION OF THE EARTH (ORBIT)
  - ↳ ROTATION OF THE MOON
  - ↳ REVOLUTION OF THE MOON

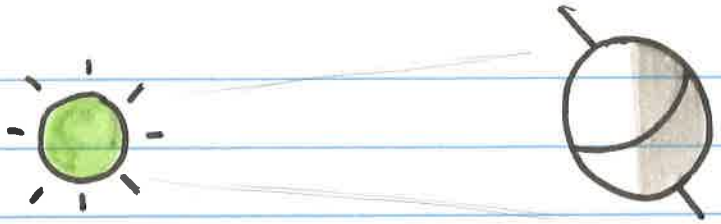
- ROTATION OF THE EARTH PROVIDES
  - ↳ DAYS AND NIGHT CYCLES (24 HRS)
  - ↳ APPARENT MOTION OF THE STARS

- REVOLUTION OF THE EARTH PROVIDES
  - ↳ THE YEAR CYCLE (365.25 DAYS)
  - ↳ CAUSES SEASONS



A: NORTHERN HEMISPHERE GETTING MORE SUN MEANS SUMMER. SOUTH IS WINTER

B: SOUTH GETS MORE SUN SO ITS SUMMER THERE AND WINTER NORTH



- AS YOU CAN SEE ABOVE, THE NORTHERN HEMISPHERE GET MORE SUN, WHICH MAKES IT HOTTER. THIS IS SUMMER. THE SOUTHERN HEMISPHERE GETS LESS LIGHT, WHICH PUTS IT IN WINTER.

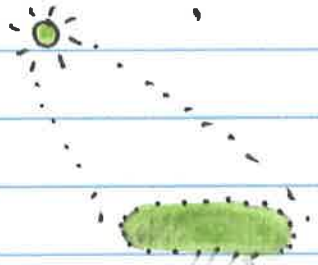
- THE TILT OF THE EARTH CAUSES SEASONS
  - ↳ MORE TILT LEADS TO MORE EXTREME SEASONS

- ANOTHER ASPECT IS THE ANGLE OF SUNLIGHT

SUMMER

- SUN HIGH IN SKY
- SUN LIGHT IS DIRECT
- MORE LIGHT COVERS SMALL SURFACE
- HOT

WINTER



- SUN LOW IN SKY
- SUNLIGHT IS INDIRECT & DIFFUSED
- SAME LIGHT COVERS LARGE SURFACE
- COLD

Important Dates

Spring Equinox:

- ↳ March - Northern Hemisphere
- ↳ Day + Night are equal

Summer Solstice:

- ↳ June - Northern Hemisphere
- ↳ Longest day of the year

Fall Equinox:

- ↳ September - Northern Hemisphere
- ↳ Day + Night are equal

Winter Solstice:

- ↳ December - Northern Hemisphere
- ↳ Shortest day of the year