Section 2

THE EARTH AND SPACE

OBJECTIVES: UNDERSTAND THE PHYSICAL PROCESSES THAT SHAPE EARTH'S SURFACE

The Solar System

- Sun = _____
- Earth + ____ other planets + countless other bodies revolving around the Sun (i.e.: Pluto) = our solar system
- times differ- Mercury 88 days, Neptune 165 years

The Solar System

- Earth's Movement
 - _____ per _____ per ______ (complete circuit around Sun)- 1 year
 - Every four years we add up ¼ days-
 - Earth _____ (spins) on _____ (imaginary line from North to South Pole)- easterly every 24 hours
 - Why don't we feel the Earth rotating?
 - Atmosphere

Sun and Seasons

- Earth tilted ______ degrees on its axis
- Causes _____
- _____- warmer; _____cooler

Sun and Seasons

- Solstices and Equinoxes
 - 4 days in the year are significant for seasons
 - ______- North Pole tilted toward Sundirectly over ______ (23 ½ N lat.)-summer solstice in Northern hemisphere (longest day of year)
 - In Southern hemisphere this marks the beginning of winter

Suns and Seasons

– 6 months later-- noon sun's rays hit _____ - winter solstice in Northern Hemisphere midway between solsticesspring and fall-days are equal for both hemispheres _____and _____and _____ Noon Sun directly over ______

Sun and Seasons

- Effects of Latitude
 - areas near the equator
 between Tropics of Capricorn and Cancer- get
 direct sunlight- warm year round
 - Around poles, light is always indirect- cold/cool year round
 - greatly- air masses move in from Tropics and Poles