The poles are cooler than near the equator because

* The ice and snow reflects the energy of the sun so less is absorbed where there is ice and snow.
* Tilt of the earth results in the polar regions getting less sunlight/energy

Cells caused by energy of the sun result in circulation of air on earth.

* As hot moist air rises at the equator, it causes a lot of rainfall. (tropical rainforests)
* Dry “cool” air descends on north of and south of equator resulting in desert regions.

Earth rotates and causes air to spin around the earth. This results in many different air currents in the atmosphere.

All of the above cause various interconnected systems that control the climate.

The climate greatly dictates the biosphere.

BIOMES – areas of similar temperature and precipitation (rain/snow) and have similar living things