14. What does this motion cause ?
A. Day and night.
15. What is the other motion of the earth?
A. A revolution round the sun.
16. How long does it take the earth to go round the sum?
A. A year, or about three hundred and sixtyfive days.

17. What does this motion cause?
A. The changes of the seasons.

## LESSON III.

## MAPS AND CIRCLES.

18. What is a Map?
A. A picture of the earth's surface.

Toward the top of a mup is North, the bottom South, the right hand East, and the loft hand West.-
19. What do the lines drawn on maps reprosent?
A. Parts of imaginary cireles* extending on the earth's surface.
20. Why do you say imaginary circles?
A. Becanse they are not actually drawn on the earth; but are only imagined or supposed to be drawn.
21. How aro circles aupposed to be divided?
A. Into threo hundred and sixty equal parts called degrees. (Degrees are thus marked, ().)
22. What is as semicircle?
A. Half of a circle.
23. How are the circles on the earth designated?
A. As Great Circles and Small Circles.
24. What is a Great Circlo of the earth ?
A. One that divides the earth's surface into two equal parts.

[^0]25. Which aro the Great Circles of the earth?
A. The Equator and the Meridian Cireles.
26. What is a Small Circie of the earth?
A. One that divides the earth's surface into two wnequal parts,
27. Which are the Small Circles of the earth ?
A. The Tropics, Polar Cireles, and Parallels.

## LESSONTV.

## OIROLES OF THE EARTH DEFINED.

28. What is the Equator?
A. A great circle on the earth's surface, everywhere equally distant from the poles.
29. What are the Meridian Circles ?
A. They are great circles that extend north and south round the globe.
30. What is a Meridian or Meridian Line?
A. It is the part of a meridian circle which extends from one pole to the other.
31. How many meridians are commonly drawn on globes?
A. Twenty four; but every place is supposed to have a meridian passing through it.
32. What are tho Paralloln?
A. They are small circles passing round the earth parallel* to the equator.
33. What aro the Tropies?
A. They are two parallele, one north, and the other soith, of the equator, and each at a distance from it of $28 \frac{1}{2}$ degrees.
34. What are the names of the Tropien?
A. That north of the equator is called the Tropic of Cancer ; that south of it, the Tropic of Oapricorn.
35. What are the Polar Circles?
A. Two cireles surrounding the poles, each at a distance of $233^{\circ}$ from the pole it surrounds.
36. What are the Polar Circles called?
A. The one about the North Pole is called the Arctic Circle; the one sbout the South Pole, the Antarctic Circle.
[^1]
[^0]:    * The term cincle, hefo, and in the sacoceiline panagraplis of Leseons III. and IV , ti emploped in a restrieted sease, applying ouly to tho cincunjeranes of Lhe circle (Sien Dufinstions minhematically aftuted, pmge 12.)

[^1]:    - Cireler are purallel to each other when every point of the oue is equidletant from every eorremponding polat of the other.

