

Name: _____ Date: _____

Motion of the Earth

Q1. What would happen if the earth did not rotate?

Ans. _____

Q2. Why do we have leap year?

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Motion of the Earth

Q1. What would happen if the earth did not rotate?

Ans. The portion of the earth facing the sun would always experience day, thus bringing continuous warmth to the region. The other half would remain in darkness and be freezing cold all the time. Life would not have been possible in such extreme conditions.

Q2. Why do we have leap year?

Ans. The earth takes $365 \frac{1}{4}$ days to revolve around the sun. We consider a year as consisting of 365 days only and ignore six hours for the sake of convenience. Six hours saved every year added to make one day (24 hours) over a span of four years. This surplus day is added to the month of February. Thus every fourth year, February is of 29 days instead of 28 days. Such a year with 366 days is called a leap year.