

## Time zones

## Worksheet 1 Teacher's notes

1. Imagine your friend goes to London on a school trip and promises to Skype with you at 8 o'clock in the evening. What time will it be in your country? Why ?

*in Poland one hour later, because of different time zones*

- ## 2. What is the earth's axis?

*imaginary pole the earth spins on*

How long does it take for the earth to complete one turn around its axis?

24 hours

## What is the longitude?

*a line that goes from the north to the south pole every 15 degrees*

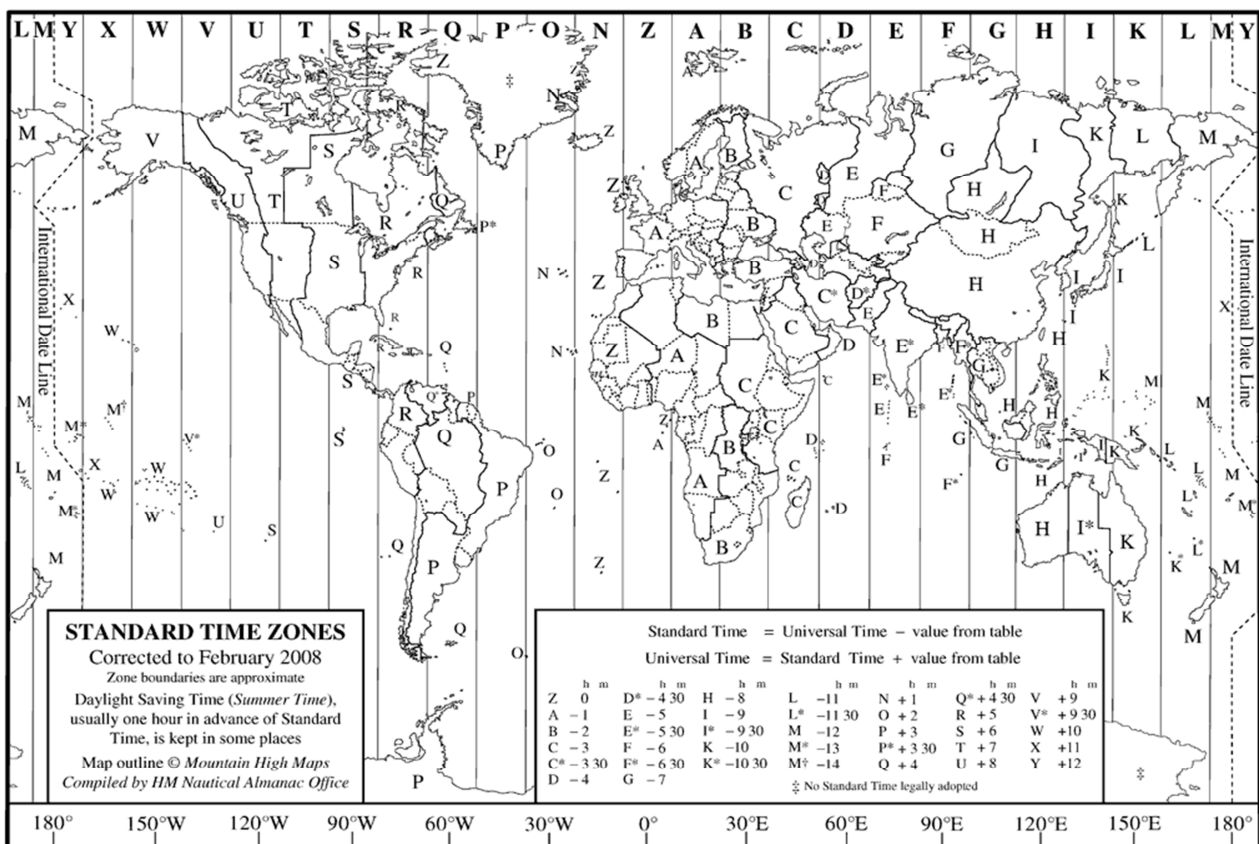
## What is the difference between the earth rotation and revolution?

*rotation is around the axis, revolution is around the Sun*

Go online and read about the time zones.

<http://www.funsocialstudies.learninghaven.com/articles/timezones.htm>

<http://wonderopolis.org/home/wonder/why-do-we-have-different-time-zones/>



<http://www.susdesign.com/images/time-zone-map.gif>

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3. Go online <http://www.youtube.com/watch?v=kDWHM00sZJc> and watch a video about different time zones. Answer these questions:

- What are the numbers 360, 24 and 15 ?

*360 degrees of the earth, 24 hours for the full turn, 15 degrees for each time zone*

- What is the Prime Meridian and why it is important?

*longitude 0, goes through Greenwich, The [Greenwich Meridian](#) (Prime Meridian or Longitude Zero degrees) marks the starting point of every time zone in the World.*

- What is GMT ( Greenwich Mean Time)?

*time measured on the prime Meridian, GMT is World Time and the basis of every world [time zone](#) which sets the time of day and is at the centre of the time zone map. GMT sets current time or official time around the globe.*

4. Go online and try to do the time zone quiz:

<http://easyscienceforkids.com/time-zones-quiz-free-interactive-quiz-general-knowledge-questions/>

<http://nzmaths.co.nz/sites/default/files/TimeZonesAroundtheWorld.pdf>

*students' own answers*

5. Watch the earth from space and see the night turn into day :

<http://www.youtube.com/watch?v=FG0fTKAqZ5g>