

## Time zones

Class: Middle school/high school

Level: Intermediate/ upper-intermediate.

Time : 45 minutes

Aims:

- To learn about time zones
- To learn about rotation and revolution of the Earth
- To learn about time difference in different time zones
- To learn vocabulary connected with
- To look for specific information on the internet
- To read for specific information
- To transfer the information.
- To use web pages

CLIL: Geography

Materials : included photocopies, access to the internet and personal computer, speakers.

STAGE	AIMS	PROCEDURE	CLASSROOM LANGUAGE	TIME	MATERIALS
Introduction	To start the lesson	Check the register /check homework		1 min/ 6 min	
Warm – up activity	To provide students with introduction to the topic	Class discussion about time difference and time zones.	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 ?	5 min	
The main part of the lesson	To learn about the Earth's rotation	<p>Ask the students to read the questions in exercise 2, check the understanding of the task.</p> <p>Put the students into pairs or small groups and give time to search for the answers.</p> <p>Check the answers as a class.</p>	<p>What is the earth's axis? How long does it take for the earth to complete one turn around its axis? What is the longitude? What is the difference between the earth rotation and revolution?</p> <p>Go online and read about the time zones. <a href="http://www.funsocialstudies.learninghaven.com/articles/timezones.htm">http://www.funsocialstudies.learninghaven.com/articles/timezones.htm</a> <a href="http://wonderopolis.org/home/wonder/why-do-we-have-different-time-zones/">http://wonderopolis.org/home/wonder/why-do-we-have-different-time-zones/</a></p>	10 min	Worksheet 1  Internet
	To watch a video about	Ask the students to read the questions,	Go online <a href="http://www.youtube.com/w">http://www.youtube.com/w</a>	10 min	

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	time zones	check the understanding and give time to search for the answers. Check the answers as a class.	<a href="https://www.youtube.com/watch?v=kDWHM00sZJc">atch?v=kDWHM00sZJc</a> and watch a video about different time zones. Answer these questions: <ul style="list-style-type: none"> <li>• What are the numbers 360, 25 and 15 ?</li> <li>• What is the Prime Meridian and why it is important?</li> <li>• What is GMT (Greenwich Mean Time)?</li> </ul>		
	To check the understanding of the lesson	Ask the students to work individually, go online and do the quiz about the time zones.	Go online and try to do the time zone quiz: <a href="http://easyscienceforkids.com/time-zones-quiz-free-interactive-quiz-general-knowledge-questions/">http://easyscienceforkids.com/time-zones-quiz-free-interactive-quiz-general-knowledge-questions/</a>  <a href="http://nzmaths.co.nz/sites/default/files/TimeZonesAroundtheWorld.pdf">http://nzmaths.co.nz/sites/default/files/TimeZonesAroundtheWorld.pdf</a>	10 min	
Wrap-up	To watch as the day turns into night and understand how the time zones work	Ask the students to go online and watch a NASA film made from space .	Watch the earth from space and see the night turn into day : <a href="http://www.youtube.com/watch?v=FG0fTKAqZ5g">http://www.youtube.com/watch?v=FG0fTKAqZ5g</a>	5 min	

Sources:

<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>

<http://www.youtube.com/watch?v=kDWHM00sZJc>

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

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

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