



## Lesson Plan

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<b>Class: 1 or 2</b>	<b>Grade: 13/14 years old</b>	<b>Time: 45 minutes</b>
<b>Teacher: Kinga Myśliwiec</b>		<b>Date: June, 2017</b>
<b>Country: Poland</b>	<b>Subject: Geography</b>	
<b>Topic Area: Time</b>		
<p><b>Aims:</b> By the end of this lesson students will be able to:</p> <ul style="list-style-type: none"> <li>- know the effects of the rotation,</li> <li>- know the features of the rotation,</li> <li>- know what is 'solar time,' 'official time,' 'zone time' and 'universal time,' and can explain the difference between these times,</li> <li>- calculate the difference of solar time between selected points,</li> <li>- read the time from a map of time zones,</li> <li>- point on the map an international line of changing dates.</li> </ul>		
<b>Aids</b> <sup>1</sup> : textbooks, atlas, worksheets given by a teacher		
<b>Procedure:</b>		<b>Time</b>
Warm up/ review: A teacher explains students the difference between time zones and how to use a map of time zones.		10 minutes
Step 1: Students work in pairs/groups using atlases and doing some tasks which are given by a teacher (appendix		25 minutes

<sup>1</sup> Attach worksheets, Other material used, links to websites...

<p>1).</p> <p>Step 2: Students have to complete a plane ticket (appendix 2).</p>	<p>10 minutes</p>
<p><b>Homework:</b></p>	
<p><b>Evaluation:</b> A teacher discusses solutions and evaluate their correctness.</p>	
<p><b>Summary:</b> This lesson improves pupils' skills to use a different source of information, communicate with others and work in team.</p>	

**Appendix 1** A plane ticket with explanations

**Appendix 2** A plane ticket to complete by students

## A task set A

### Warsaw – Bangkok

#### 1. Complete the table.

Warsaw (Poland) to Bangkok (Tajland) total price:1457.65PLN

Lp.	Departure from	Arrival	Plane	Flight number	Meal	Time of departure	Time of arrival
1.	WAW	MUC	EMJ	LO351	B	06:30	
2.	MUC	BKK	332	LT1752	M	18:00	

Flight distance: WAW-MUC: **1h40min** MUC-BKK:**9h15min**

WAW-Warsaw

EMJ-Embraer 170/190

B-breakfast

BKK-Bangkok

332-Airbus

M-snack

MUC-Munich

#### 2. Calculate the difference of solar time between Warsaw (21°E) and Bangkok (101°E).

0°

21°E

101°E

**3. It's the last weekend of March and it just changes the time of Eastern European (winter) to the Middle European (summer). Think about if you need to get up earlier or later to catch a flight from Warsaw to Munich.**

**A task set B**

**Warsaw – Buenos Aires**

**1. Complete the table.**

Warsaw (Poland) to Buenos Aires (Argentina) total price: 2830.90 PLN

Lp.	Departure from	Arrival	Plane	Flight number	Meal	Time of departure	Time of arrival
1.	WAW	FCO	319	AZ553	M	13:10	
2.	FCO	EZE	772	AZ680	M	21:50	

Flight distance: WAW-FCO: **2h25min** FCO-EZE: **15h**

WAW-Warsaw

319-Airbus A319

FCO-Rome

772-Boeing777

M-snack

EZE-Buenos Aires

**2. Calculate the difference of solar time between Warsaw (21°E) and Buenos Aires (59°W).**

59°W

0°

21°E



**European (summer). Think about if you need to get up earlier or later to catch a flight from Warsaw to Dublin.**

## **A task set D**

### **Warsaw – Sydney**

#### **1. Complete the table.**

Warsaw (Poland) to Sydney (Australia) total price:2900.64PLN

<b>Lp.</b>	<b>Departure from</b>	<b>Arrival</b>	<b>Plane</b>	<b>Flight number</b>	<b>Meal</b>	<b>Time of departure</b>	<b>Time of arrival</b>
1.	WAW	VIE	735	LO225	L	17:20	
2.	VIE	SYD	767	CA7002	M	20:15	

Flight distance: WAW-VIE: **1h25min** VIE-SYD:**16h40min**

WAW-Warsaw  
lunch/dinner

735-Boeing 737-500

L-

VIE-Vienna

767-Boeing 767

M-snack

SYD-Sydney

#### **2. Calculate the difference of solar time between Warsaw (21°E) and Sydney (151°E).**

0°

21°E

151°E

#### **3. It's the last weekend of March and it just changes the time of Eastern European (winter) to the Middle**

**European (summer). Think about if you need to get up earlier or later to catch a flight from Warsaw to Vienna.**