

MATATAG K to 10 Curriculum – Weekly Lesson Log	School:		Grade Level:	V
	Teacher:		Learning Area:	MATHEMATICS
	Teaching Dates and Time:		Quarter:	1 st QUARTER Week 2

	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
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I. CURRICULUM CONTENT, STANDARDS AND LESSON COMPETENCIES					

A. Content Standards	The learner should have knowledge and understanding of world time zones.
B. Performance Standards	The learners will be able to compare the time zones with the time in the Philippines. (MG)
C. Learning Competencies	1. Compare the time in different world time zones to the time in the Philippines using a world time zone map. 2. Solve problems on comparing the time in different world time zones to the time in the Philippines.
D. Content	Comparing world time zones Solving word problems on comparing world time zones
E. Integration	Valuing time/Time Management Global Interconnectedness Cultural Appreciation

II. LEARNING RESOURCES

Absolute Values. BYJU's. <https://byjus.com/maths/absolute-values/>
Daylight saving time. IBM. (2023, October 10). <https://www.ibm.com/docs/en/i/7.3?topic=concepts-daylight-saving-time>
International time zones and time differences. Mathspace. <https://mathspace.co/textbooks/syllabuses/Syllabus-812/topics/Topic-18338/subtopics/Subtopic-246438/?activeTab=theory>
List of Time Zones. Timezonedb. <https://timezonedb.com/time-zones>
Mears, L. (2022, August 26). *World clock: What is it and how does it work?* Space.com. <https://www.space.com/world-clock>
Number Line Drawing Tool. GeoGebra. <https://www.geogebra.org/m/jzznyzq7>
Personal World Clock. Timeanddate. <https://www.timeanddate.com/worldclock/personal.html>
Standard Time Zones of the World. Kiddle. https://kids.kiddle.co/images/8/88/World_Time_Zones_Map.png
Time Zones. Loudoun County Public Schools. <https://www.lcps.org/cms/lib4/VA01000195/Centricity/Domain/2540/Time%20Zones.pdf>
Time zone facts for kids. Kiddle. https://kids.kiddle.co/Time_zone
What is a Time Zone? Timeanddate. <https://www.timeanddate.com/time/time-zones.html>
World Time Zone Map. Britannica Kids.
<https://kids.britannica.com/students/assembly/view/166703#:~:text=The%20world%20is%20divided%20into,time%20at%20the%20Greenwi>

III. TEACHING AND LEARNING PROCEDURES

A. Activating Prior Knowledge
1. Short Review:

Complete the table so that the time given in the 12-hour time column will equal the time shown in the 24-hour column.

12-Hour Time	24-Hour Time
7:08 AM	
10:40 PM	
	00:21
	17:25
	01:43

Tell the time of the following countries based on the Philippines time.
If the Philippine time is 2:30 pm, what is the time in the following countries?

- 1. China- _____
- 2. Venezuela- _____
- 3. Poland- _____
- 4. India- _____
- 5. Egypt- _____

Let us read and analyze the problem below.

Dina's mom worked in Rome, Italy. Dina called her mom at 9:25 P.M. (Philippine time) to inform her that she got the first prize in Math Quiz. What time was it in Rome, Italy?



- Answer the following questions:
- 1. Where did Dina's mom work?
 - 2. Why did Dina call?
 - 3. Do you think Dina studied well and did accurate computations during the quiz?
 - 4. Do you also do that during exams? Why?

Complete the following statement.

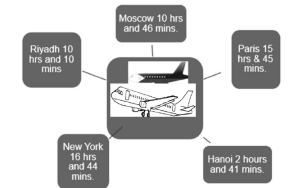
If the time is

- 1. 10:00 A.M. in India
- 2. _____ in Singapore
- 3. 12:30 A.M. in Sydney, Australia
- 4. 15:00 H in Saudi Arabia

then the time is

7:30 A.M. in the Philippines.
8:00 A.M. in Manila.
_____ in Cebu City.
_____ in Zamboanga City.

Directions: Work out the time that you will land in each of these cities if you fly from the Philippines. You will need to know how long the flight takes and the time adjustment as a result of the time zones. The travel time from the Philippines to each city is given in the diagram. Use the time zone map to help you fill out the table.



Destination	Departs at (PST)	Time Difference from PST	Time of Arrival (PST 24-hour clock)	Time of Arrival (PST 12-hour clock)
Riyadh	06:00 H			
Paris	08:00 H			
Moscow	22:00 H			
Hanoi	09:30 H			
New York	14:00 H			

Destination	Departs at (PST)	Travel Time	Time of Arrival in the City (24-hour clock)	Time of Arrival in the City (12-hour clock)
Riyadh	06:00 H			
Paris	08:00 H			
Moscow	22:00 H			
Hanoi	09:30 H			
New York	14:00 H			

B. Establishing Lesson Purpose

1. Lesson Purpose:

Have you been to an airport, office, or house where you see clocks with

Using the world map, complete the crossword puzzle below.

If the time in Philippines is 8:30 A.M. , write the time in the following countries. Use a world map or the table above to

Directions: Complete the table (refer to the time zone map) Write your answer

Directions: Fill out the table below. Tell the time of the following countries based on the Philippine

different times hanging on the wall?



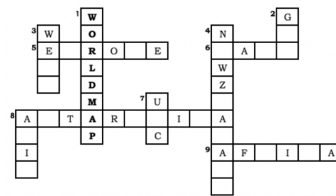
Reference:

<https://www.timeanddate.com/worldclock/personal.html>

Have you ever wondered what they are for and why they display different times?

Different countries follow different time zones. These clocks show the time in some parts of the world.

If it is 14:12 or 2:12 PM on Saturday in Angeles City, Philippines, what time and day is it in New York? London? Tokyo?



ACROSS

5 continent where Spain, Germany, France belong

6 direction where you can find Philippines

8 ice covered landmass

9 continent where Ghana, Kenya, Nigeria belong

DOWN

1 use to locate countries of the world

2 stands for Greenwich Mean Time

3 direction where you can find Honolulu

4 found in the continent of Australia

7 acronym of Universal Time Coordinated

8 the biggest continent

determine the UTC / GMT of the given country.

Country	Time
1. Thailand	7:30 A.M.
2. New York	
3. Japan	
4. UAE	
5. UK	

on a separate sheet of paper. **Number one is done for you!**

Country	Time	Philippine Time	Time Difference
1. South Africa	5:03 A.M. (UTC +2)	11:03 A.M. (UTC +8)	6 hours
2. Tokyo	10:00 P.M. (UTC +9)	(UTC +8)	
3. Oman	(UTC +4)	2:25 A.M. (UTC +8)	
4. Sydney	(UTC +10)	12:10 P.M. (UTC +8)	

Standard Time. If it is Tuesday, 6:00 a.m. in the Philippines, what time and day is it in the following countries?

Countries	Time and Day
1. Paris	
2. London	
3. Singapore	
4. Australia	
5. Washington	

2. Unlocking Content Vocabulary

- A time zone is a region where the same standard time is adopted.
- According to Britannica Kids, the world is divided into 24 time zones. Each time zone is approximately 15 degrees longitude wide and corresponds to one hour.
- Coordinated Universal Time, or UTC, formerly known as Greenwich Mean Time (GMT), is the world's time standard.
- Time zones are based on how far they are behind or ahead of the Greenwich Mean Time (GMT) or Coordinated Universal Time (UTC). The GMT zone is the reference point and is considered to be 0. Countries located west of the Prime Meridian are behind the GMT and use a negative (-) GMT/UTC, while countries situated east are ahead of GMT and use a positive (+) GMT/UTC.

C. Developing and Deepening Understanding

SUB-TOPIC 1:

- ☐ **Explication**
n

COMPARE THE TIME IN DIFFERENT WORLD TIME ZONES TO THE TIME IN THE PHILIPPINES USING A WORLD TIME ZONE MAP

Let us read and analyze the given word problem.

Rapha was the Champion in his school's recently held Math Quiz Bee. He would like to share this achievement with his uncles who live in Auckland, New Zealand. He intends to call them at 4:00 PM, Philippine time. What time will Rapha's uncles receive his call from the Philippines in Auckland, New Zealand?

To answer this, let us look at the world time zone map.



- The world time zone map indicates that the Philippines is in UTC + 8 while Auckland, New Zealand, is in UTC +12.
- This means that there is a 4-hour difference between the Philippines and Auckland.

As mentioned earlier, time zones are based on how far they are behind or ahead of the Greenwich Mean Time (GMT) or Coordinated Universal Time (UTC). The GMT zone is the reference point and is considered to be 0.

Countries located west of the 0 Longitude or Prime ° Meridian are behind the GMT and use a negative (-) GMT/UTC, while countries situated east are ahead of GMT and use a positive (+) GMT/UTC. This means that moving towards the west of Greenwich would require us to set our clocks back to an earlier time while moving towards the east would require us to set our clocks to a later time.



<https://databutton.com/images/2018/World-Time-Zones-Map.png> REFERENCE POINT (zero degree)

SOLVE PROBLEMS ON COMPARING THE TIME IN DIFFERENT WORLD TIME ZONES TO THE TIME IN THE PHILIPPINES.

Aside from your hometown, what places have you visited already?

- What other places in the Philippines would you like to see? Why?
- Aside from local destinations, have you considered traveling to an international destination someday?

Did you know that the New York Times listed 52 travel destinations for 2024? Let's take a peek at some of them. Who knows, we may visit one someday.



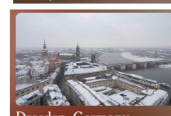
Thessaloniki, Greece



Paris, France



Mustang, Nepal



Dresden, Germany



Ladakh, India



Maui, Hawaii



El Salvador



Montevideo, Uruguay

We must review the steps for calculating the time difference and comparing it with Philippine time before working on the problem.

Steps:

1. Identify the UTC of the given locations.
2. For locations on the same side of the prime meridian, either to the west or to the east, subtract the Coordinated Universal Time (UTC) of the given locations.
3. For locations on opposite sides of the prime meridian, one to the west and the other to the east, add the respective distances from the prime meridian.
4. To determine the equivalent time in another location given the Philippine time, add the calculated time difference to the given Philippine time when the UTC of another location is

How do you take care of your body? Does getting a proper sleep do good to our body? How many hours a student like you should sleep?

Let us read and analyze the problem below.

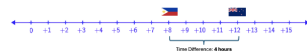
Hilda goes to bed at 9 o'clock. Before she turns off the light in her room, she sets her alarm clock to make sure that she has 8 hours of sleep. What time is she going to wake up?

Answer the following questions:

1. What time does Hilda go to bed?
2. What does she do to make sure that she has 8 hours of sleep?
3. If she gets 8 hours of sleep, do you think that is enough to have a good rest?
4. Why is it important to have enough time to sleep?

Specifically, Auckland is 4 hours ahead of the Philippine Time Zone.

Let us illustrate the time difference between two locations using a number line.



If Rapha intends to call his uncles at 4:00 PM, Philippine time, what time is that in Auckland, New Zealand?

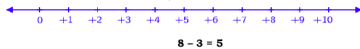
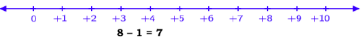
Solution:

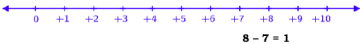
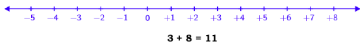
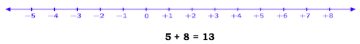
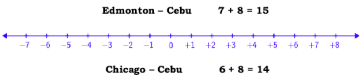
The time difference between Philippines and Auckland is 4 hours. Therefore, 4:00 P.M in the Philippines corresponds to 8:00 pm in Auckland, New Zealand.

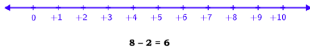
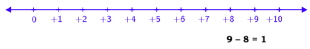
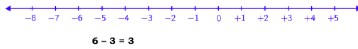


SOME ADDITIONAL
CONCEPTS
RELATED TO
WORLD TIME
ZONES.

ahead of the Philippines' UTC. Conversely, if the UTC of another location is behind the Philippines' UTC, subtract the calculated time difference from the given Philippine time

	It takes 24 hours for the Earth to rotate on its axis, which makes one day. Since it rotates 360 degrees within 24 hours, it rotates approximately 15 degrees per hour. Hence, the world has 24 time zones.				
☐ Worked Example	Using a world time zone map.  The following steps must be emphasized while discussing the solution of each example. 1. Identify the UTC of the given locations. 2. For locations on the same side of the prime meridian, either to the west or to the east, subtract the Coordinated Universal Time (UTC) of the given locations. 3. For locations on opposite sides of the prime meridian, one	Example 2: If it is 9:30 PM on Friday in the Philippines, what time and day is it in the following places? a. Singapore b. Bangkok, Thailand c. Sao Paulo, Brazil d. Sydney, Australia Solutions: a. Philippine (UTC +08:00) Singapore (UTC +08:00) Since the Philippines and Singapore are in the same time zone and have the same UTC, they observe the same time. Hence, 9:30 PM on Friday in the Philippines is 9:30 PM on Friday in Singapore. b. Philippine (UTC +08:00)	Let us answer the examples of word problems on world time zones. Example 1: Kate, who lives in Manila, Philippines, wants to call her friend Elmer, who lives in Riyadh, Saudi Arabia. If Kate calls Elmer at 3:00 PM, Tuesday, Philippine time, what day and time is it in Riyadh, Saudi Arabia? Solution: Manila, Philippines (UTC +08:00) Riyadh, Saudi Arabia (UTC +03:00)  The Philippines and Riyadh, Saudi Arabia, have a 5-hour difference. Specifically, Riyadh, Saudi Arabia time is 5	Example 3: Suppose a flight departs from Manila at 10:00 PM on a Monday, Philippine Time and arrives in Paris after a 17-hour journey. What day and time will it be in Paris upon arrival? Solution: Philippines (UTC +08:00) Paris, France (UTC +01:00)  The Philippines and Paris, France have a 7-hour difference. Specifically, the time in Paris, France is 7 hours behind the Philippine time. Subtract 7 hours from 10:00 PM. Hence, if it is 10:00 PM on Monday in the Philippines, it is 3:00	Directions: Analyze and solve each problem using the steps in problem solving. 1. Karlo and Lita left school at 2:05 P.M. They drove for 46 minutes before arriving at Karlo's house. What time did they arrive at Karlo's house? a. What is asked in the problem? _____ b. What are the given facts? _____ c. What is the number sentence? _____

	to the west and the other to the east, add the respective distances from the prime meridian. 4. To determine the equivalent time in another location given the Philippine time, add the calculated time difference to the given Philippine time when the UTC of another location is ahead of the Philippines' UTC. Conversely, if the UTC of another location is behind the Philippines' UTC, subtract the calculated time difference from the given Philippine time. Example 1: If it is 10:00 AM, Monday in the Philippines, what time and day is in the following places? a. Johannesburg, South Africa b. Seoul, South Korea c. Lima, Peru	Bangkok, Thailand (UTC +07:00)  The Philippines and Bangkok, Thailand have an hour difference. Specifically, the time in Bangkok, Thailand is an hour behind the Philippine time. Subtract 1 hour from 9:30 PM. Hence, if it is 9:30 PM on Friday in the Philippines, it is 8:30 PM, Friday in Bangkok, Thailand. c. Philippine (UTC +08:00) São Paulo, Brazil (UTC -03:00)  The Philippines and Sao Paulo, Brazil have an 11-hour difference. Specifically, the time in Sao Paulo, Brazil is 11 hours behind the Philippine time. Subtract 11 hours from 9:30 PM. Hence, if it is 9:30 PM on Friday in the Philippines, it is 10:30	hours behind the Philippine time. Subtract 5 hours from 3:00 PM. Hence, if it is 3:00 PM Tuesday in the Philippines, it is 10:00 AM, Tuesday in Riyadh, Saudi Arabia. Example 2: Dr. Mallari has been invited to deliver a keynote speech for an international webinar. The participants live in Colombia. The webinar begins at 9:30 PM, Wednesday, Philippine Time. What day and time will it be for the participants in Colombia? Solution: Philippines (UTC +08:00) Columbia (UTC -05:00)  The Philippines and Colombia have a 13-hour difference. Specifically, the time in Colombia is 13 hours behind the Philippine time. Subtract 13 hours from 9:30 PM. Hence, if it is 9:30 PM on Wednesday in the Philippines, it is 8:30 AM, Wednesday in Colombia.	PM, Monday in Paris, France. Since Manila to Paris is a 17-hour journey, add 17 hours to 3:00 PM. The flight will arrive in Paris, France at 8:00 AM, Tuesday. Example 4: A multinational corporation with headquarters in Cebu, Philippines, is organizing a video conference with its branches in Edmonton, Canada (UTC -07:00), and Chicago, USA (UTC -06:00). If the video conference is scheduled for 4:30 PM on Wednesday, Philippine Time, what day and time will it be for the branches in Edmonton and Chicago? Solution: Cebu, Philippines (UTC +08:00) Edmonton, Canada (UTC -7:00) Chicago, USA (UTC -06:00) 	d. What is the complete answer? _____ 2. Henry left his office at 4:50 P.M. He ate dinner at 7:20 P.M. How much time passed between he left office and ate dinner? a. What is asked in the problem? _____ b. What are the given facts? _____ c. What is the number sentence? _____ d. What is the complete answer? _____
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	Solutions: a. Philippines (UTC +08:00) Johannesburg, South Africa (UTC +02:00)  The Philippines and Johannesburg, South Africa, have a 6-hour difference. Specifically, Johannesburg, South Africa's time is 6 hours behind the Philippine time. Subtract 6 hours from 10:00 AM. Hence, if it is 10:00 AM Monday in the Philippines, it is 4:00 AM Monday in Johannesburg, South Africa. b. Philippines (UTC +08:00) Seoul, South Korea (UTC +9:00)  The Philippines and Seoul, South Korea, have an hour difference.	AM, Friday in Sao Paulo, Brazil. d. Philippine (UTC +08:00) Sydney, Australia (UTC +10:00)  The Philippines and Sydney, Australia, have a 2-hour difference. Specifically, the time in Sydney, Australia is two hours ahead of the Philippine time. Add 2 hours to 9:30 PM. Hence, if it is 9:30 PM on Friday in the Philippines, it is 11:30 PM Friday in Sydney, Australia. Example 3: If it is 17:00, Tuesday in Mexico City, Mexico, what time and day is it in Buenos Aires, Argentina? Solution: Buenos Aires, Argentina (UTC -03:00) Mexico City, Mexico (UTC -06:00) 		<i>Edmonton – Cebu</i> Cebu, Philippines and Edmonton, Canada have a 15-hour difference. Specifically, the time in Edmonton, Canada is 15 hours behind the Philippine time. Subtract 15 hours from 4:30 PM. Hence, if it is 4:30 PM on Wednesday in Cebu, Philippines, it is 1:30 AM, Wednesday in Edmonton, Canada. <i>Chicago – Cebu</i> Cebu, Philippines and Chicago, USA have a 14-hour difference. Specifically, the time in Chicago, USA is 14 hours behind the Philippine time. Subtract 14 hours from 4:30 PM. Hence, if it is 4:30 PM on Wednesday in Cebu, Philippines, it is 2:30 AM, Wednesday in Chicago, USA.	
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	Specifically, the time in Seoul, South Korea is 1 hour ahead of the Philippine time. Add 1 hour to 10:00 AM. Hence, if it is 10:00 AM Monday in the Philippines, it is 11:00 AM Monday in Seoul, South Korea. c. Philippines (UTC +08:00) Lima, Peru (UTC -05:00)  The Philippines and Lima, Peru have a 13-hour difference. Specifically, time in Lima, Peru is 13 hours behind the Philippine time. Subtract 13 hours from 10:00 AM. Hence, if it is 10:00 AM on Monday in the Philippines, it is 9:00 PM, Sunday in Lima, Peru.	Buenos Aires, Argentina and Mexico City, Mexico, have a 3-hour difference. Specifically, the time in Buenos Aires, Argentina is 3 hours ahead of Mexico City, Mexico time. Add 3 hours to 17:00. Hence, if it is 17:00 on Tuesday in Mexico City, Mexico, it is 20:00 Tuesday in Buenos Aires, Argentina.			
☐ Lesson Activity	Instruction: From the list, choose the top 5 countries/cities to which you would like to travel someday.	Choose the correct answer to complete the statement. 1. 24 H clock is also called a (Military Time , Standard Time).	Solve the following word problems. Show the necessary solutions. 1. The Philippines celebrates New Year's	Directions: Write your answer on a separate sheet of paper. Solve and analyze each problem.	With the following given time in the Philippines, determine the equivalent time in the given country.

Using the world map, identify the UTC for each chosen location and compare the time in the travel destinations with Philippine time.

List of travel destinations				
Prague, Czech Republic		Panama City, Panama		
Prague, Czech Republic		Hong Kong		
Auckland, New Zealand		Tokyo, Japan		
Reykjavik, Iceland		Switzerland		
Rome, Italy		Buenos Aires, Argentina		

	Country/City	UTC	Time Difference relative to PH	If it is 7:45 AM on Sunday in the Philippines, what time and day is it in _____?	If it is 4:30 PM on Saturday in the Philippines, what time and day is it in _____?
Travel Destination 1					
Travel Destination 2					
Travel Destination 3					
Travel Destination 4					
Travel Destination 5					

2. To convert 12 hour to 24 hour clock format, (add , subtract) 12 to hours and retain the minutes.
3. 3:00 P.M. means (3:00 P.M. , 15:00 H) in 24 hour clock format.

Day on January 1. If it is midnight on January 1, 2025 in the Philippines, what date and time will it be in Moscow, Russia?

2. A company schedules virtual meetings between Manila, Philippines, Tokyo, Japan, and Phnom Penh, Cambodia. The meeting is set for 1:00 PM, Wednesday, Philippine Time. What time and day will that be for the teams in Tokyo and Cambodia?

3. If it is 1 hour past midnight on Sunday in Baguio, Philippines, what time and day is it in Guam?

4. Rapha plans to travel from Manila, Philippines, to Perth, Australia. It will take him 7 hours and 15 minutes to reach his destination. His flight is scheduled to depart from Manila International Airport at 6:20 AM local time, Monday. What time and day in Perth's local time will his flight arrive?

5. Kim Yoona, a Korean student, is currently pursuing her studies at a

1. Jeffrey started his homework at 7:21 P.M. He finished his homework at 8:40 P.M. How much time did Jeffrey work on his homework?

a. What is asked in the problem?

b. What are the given facts?

c. What is the number sentence?

d. What is the complete answer?

2. It took 2 hours and 30 minutes to fly from China to Cebu. What time did it depart if it landed in Mactan International Airport at 1:30 A.M.?

a. What is asked in the problem?

b. What are the given facts?

Express your answers both in 12 hour and 24 hour clock format.

	If Philippine Standard Time is ...	What time is it in:	24 hour	12 hour
1	02:30 H	Buenos Aires, Argentina (UTC -3)	15:30 H	3:30 P.M.
2	5:15 A.M.	Melbourne, Australia (UTC +10)		
3	quarter past 6:00 P.M.	Caracas, Venezuela (UTC -4)		
4	half past 8:00 P.M.	Washington, DC (UTC -5)		
5	quarter before 1:00 A.M.	Athens, Greece (UTC +2)		

			private university in Angeles City, Pampanga. Feeling homesick, she plans to call her mother, who lives in Seoul, South Korea. If Yoona's mother is available at 7:30 PM local time in Seoul, what time should Yoona make her call from the Philippines?	c. What is the number sentence? _____ d. What is the complete answer? _____	
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D. Making Generalization ☐Learners' Takeaways ☐Reflection on Learning	Which of the places shown would you like to visit someday? • Why would you want to visit the place/s someday? • What other places would you like to see? Why? • Do you think these places have different time zones? • What are the advantages of traveling or visiting different places, whether nearby, within the Philippines, or internationally?	The learners will complete the given statements. The lesson in the world time zone is essential because Understanding world time zones also helps me appreciate	The teacher will guide the pupils in completing this table. <table><tr><th>Key Ideas/Concepts</th><th>What I've Learned from the Discussion</th><th>Concepts that are Somewhat Confusing</th><th>Concepts I Totally Don't Understand</th></tr><tr><td>Comparing the time in different world time zones to the time in the Philippines using a world time zone map.</td><td></td><td></td><td></td></tr><tr><td>Solving problems on comparing the time in different world time zones to the time in the Philippines.</td><td></td><td></td><td></td></tr></table>	Key Ideas/Concepts	What I've Learned from the Discussion	Concepts that are Somewhat Confusing	Concepts I Totally Don't Understand	Comparing the time in different world time zones to the time in the Philippines using a world time zone map.				Solving problems on comparing the time in different world time zones to the time in the Philippines.			
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Comparing the time in different world time zones to the time in the Philippines using a world time zone map.															
Solving problems on comparing the time in different world time zones to the time in the Philippines.															

Formative Assessment	Identify the Coordinated Universal Time (UTC) of the given locations using a world time zone map or a table of time zones. Then, calculate their time difference relative to the Philippines. Determine the equivalent time of the given location as compared to Philippine time.	Directions: Read, analyze and write the letter of the correct answer on a separate sheet of paper. 1. If 1 day is equal to 24 hours, how many hours are there in 3 days? A. 48 B. 60 C. 72 D. 96 2. What is the number sentence in the problem below? Ms. Ramos was at a meeting from 8:50 in the morning until 12:00 noon. How long was she at the meeting? A. $12:00 + 8:50 = N$ B. $12:00 \times 8:50 = N$ C. $12:00 \div 8:50 = N$ D. $12:00 - 8:50 = N$ 3. What time is it when you say 2 h and 35 min before 12:15 P.M.? A. 8:40 A.M. B. 9:40 A.M. C. 10:40 A.M. D. 11:40 A.M. 4. What time would it be 4 hours 20 minutes after 7:10 A.M.? A. 11:30 A.M. B. 12:00 A.M. C. 12:30 A.M. D. 1:00 P.M. 5. If it is 4:21 P.M. now, what time will it be in 12 hours? A. 4:21 A.M.	Solve the following word problems. Show the necessary solutions. 1. A group of students is leaving Manila for Seoul, South Korea, on a school trip. They are departing at 6:20 AM local time. If their journey takes 3 hours and 45 minutes, what time will it be in Seoul, South Korea upon their arrival? 2. Theon is traveling to Auckland, New Zealand, to visit his friends. His flight departs at 8:00 PM on Sunday, Philippine time. If his journey takes 10 hours and 30 minutes, what time and day will it be in Auckland, New Zealand upon his arrival? 3. Mr. Mallari is invited to speak in an online forum on Wednesday at 5:00 PM, Philippine time. The participants are based in London, United Kingdom (UTC 00:00). What time and day will that be for the participants in London? 4. Kelvin lives in Vancouver, Canada (UTC	Directions: Read, analyze and write the letter of the correct answer on a separate sheet of paper. 1. What is asked in the problem below? Maya started to draw a picture at 2:45 P.M. She completed it at 4:35 P.M. How much time did she take to draw the picture? A. the time Maya completes the picture B. the time Maya takes to draw the picture C. the time Maya starts to draw the picture D. all of the above 2. What is the complete answer? A. Maya takes 1 hour and 40 minutes to draw the picture. B. Maya takes 1 hour and 50 minutes to draw the picture. C. Maya takes 1 hour and 60 minutes to draw the picture. D. Maya takes 1 hour and 50 minutes to start drawing the picture. 3. How do you express “quarter to 7:00 A.M.” in numbers? A. 6:25 A.M. B. 6:30 A.M. C. 6:45 A.M.	Directions: Read, analyze and solve the given problems. Copy the letter of the correct answer in your answer sheet. For 1-4. Joshua wakes up at 5:20 A.M. so that he will have time to prepare for school. At 6:00 A.M. he is ready to go to school. How long does it take him to prepare for school? 1. What is asked in the problem? A. the time Joshua wakes up B. the activity he does every morning C. the time he is ready to go to school D. the length of time it takes Joshua to prepare 2. What operation will be needed to solve the problem? A. addition B. division C. multiplication D. subtraction 3. What if the number sentence? A. $6:00 + 5:20 = N$ B. $6:00 \div 5:20 = N$ C. $6:00 \times 5:20 = N$ D. $6:00 - 5:20 = N$ 4. What is the correct answer?																												
	<table><tr><th>Country/ City</th><th>UTC</th><th>Time Difference relative to PH</th><th>If it is 5:15 AM on Monday in the Philippines, what time and day is it in _____?</th><th>If it is 11: _____ in the PH time and day is it in _____?</th></tr><tr><td>Jakarta, Indonesia</td><td></td><td></td><td></td><td></td></tr><tr><td>Melbourne, Australia</td><td></td><td></td><td></td><td></td></tr><tr><td>Caracas, Venezuela</td><td></td><td></td><td></td><td></td></tr><tr><td>Shanghai, China</td><td></td><td></td><td></td><td></td></tr><tr><td>Paris, France</td><td></td><td></td><td></td><td></td></tr></table>	Country/ City	UTC	Time Difference relative to PH	If it is 5:15 AM on Monday in the Philippines, what time and day is it in _____?	If it is 11: _____ in the PH time and day is it in _____?	Jakarta, Indonesia					Melbourne, Australia					Caracas, Venezuela					Shanghai, China					Paris, France						
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		B. 6:21 A.M. C. 4:33 P.M. D. 8:41 P.M.	-08:00). He plans to greet his grandmother in the Philippines on her birthday, which falls on Saturday, August 3, 2024. He wants to call her exactly at midnight. What time and date should he make the call from Vancouver, Canada?	D. 7:25 A.M. 4. 2 hours and 20 minutes after 3:00 P.M. is equal to what time? A. 3:20 P.M. B. 4:20 P.M. C. 5:20 P.M. D. 6:20 P.M. 5. What is meant by “past” as used in telling time? A. It means that you have to add to the current time. B. It means that you have to divide to the current time. C. It means that you have to multiply to the current time. D. It means that you have to subtract to the current time.	A. Joshua goes to school at 6:00 A.M. B. Joshua prepares for school from 5:20 A.M. to 6:00 A.M. C. It takes 40 mins for Joshua to prepare to go to school. D. It takes 20 minutes for Joshua to prepare to go to school. 5. Look at the illustration below. What time will it be in Madrid, Spain? TIME: 8:30 P.M. Philippines (UTC/GMT +8) TIME: 7 Madrid, Spain (UTC/GMT +2) A. 2:30 A.M. B. 2:30 P.M. C. 7:30 A.M. D. 7:30 P.M.
Homework					
B. Teacher's Remarks:	Note observations on any of the following areas:	Effective Practices	Problems Encountered		
	<i>strategies explored</i>				
	<i>materials used</i>				
	<i>learner engagement/ interaction</i>				
	Reflection guide or prompt can be on: • principles behind the teaching				

C. Teacher's Reflection	<i>What principles and beliefs informed my lesson?</i> <i>Why did I teach the lesson the way I did?</i> • <i>students</i> <i>What roles did my students play in my lesson?</i> <i>What did my students learn? How did they learn?</i> • <i>ways forward</i> <i>What could I have done differently?</i> <i>What can I explore in the next lesson?</i>	
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PREPARED BY: