

Lesson 7 – Time Zones

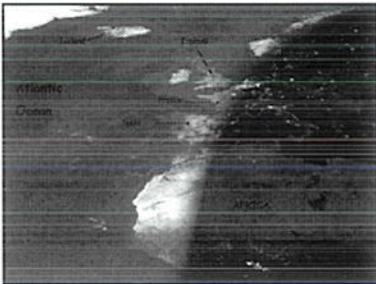
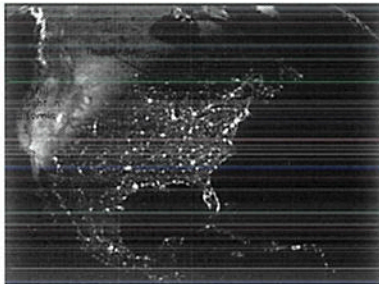
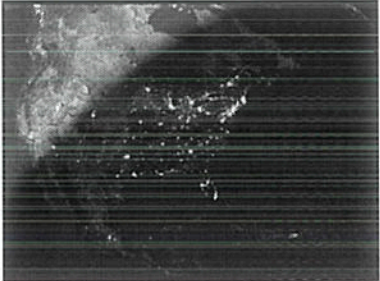
THE FOLLOWING VIDEO HAS BEEN APPROVED FOR
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BY THE EARTH SCIENCE TEACHERS ASSOCIATION OF AMERICA, INC.

THE VIDEO HAS BEEN RATED

I INTELLIGENT
UNION 15 REQUIRES TEACHER
ASSISTANCE

STRONG EARTH SCIENCE LANGUAGE, DETAILED
DIAGRAMS, AND SUPER AWESOMENESS

- I can explain how far apart each time zone is & why.
- I can remember the saying to help with whether or not to add or subtract time.
- I can determine times in other places on Earth if I am given a starting time & location.



LONGITUDE AND TIME

- The world rotates (spins) 360° in 24 hours.

$360^\circ / 24 \text{ hours} = 15^\circ \text{ per hour}$

- The world has 24 time zones, each 15° apart.

THERE IS A 1 HOUR TIME DIFFERENCE FOR EVERY 15° OF LONGITUDE

- I can explain how far apart each time zone is & why.
- I can remember the saying to help with whether or not to add or subtract time.
- I can determine times in other places on Earth if I am given a starting time & location.

Greenwich, England (Prime Meridian, 0°) is the logical starting point

- The world rotates west to east (counterclockwise), time zones to the east are ahead of the those time zones to the west

Think of it as a giant number line.

- Greenwich, England is at 0 on the number line. As you move to the right you add, as you move to the left you subtract.

- As you go EAST time will INCREASE
- As you go WEST time will be LESS



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There are six time zones in the United States of America.



New York is located in the Eastern Time Zone.



What time zone is Louisiana located in?



What time zone is California located?



Each neighboring time zone differs by one hour.



If it is 10:00 in the Eastern Time Zone what time would it be in the Mountain Time Zone?



If it is 10:00 in the Pacific Time Zone what time would it be in the Eastern Time Zone?

