# Plan a Road Trip on U.S Interstates 

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## Teacher Planning Information

Overview: Using basic maps of the U.S. cities and interstates, students will plan road trips on U.S. Interstates while calculating distance (mileage) and time (hours/days).

Objectives: In completing this activity the student should be able to:

- Understand that odd numbered interstates run N/S and that even numbered interstates run W/E.
- Understand road-trip terminology such as interstate, freeway, one-way, pit stop, cross-country, and round-trip.
- Calculate distance and time of a road trip.
- Convert miles to hours.
- Convert hours to days.


## Oregon Common Core for Math:

3.MD.G Solve problems involving measurement and estimation of intervals of time, liquid volumes, and masses of objects.

## Oregon Geographic Content Standards:

3.8 Identify links of land, regions, river systems, and interstate highways between Oregon and other states.

Grade: 3-5
Time: 15-20 minutes

## Materials:

- Pencils/Pens (15)
- Copies of maps (Do NOT change the scale of the map, colored copies not necessary but helpful if possible).
- Page 5 (5 copies)
- Page 6 (10 copies)
- Page 7 (5 copies)
- Page 8 (5 copies)

NOTE: Cut out the quarter maps from pages 7-8 and tape them together to make a larger map.

- Page 9 (2-3 copies) Do NOT change the scale of the rulers. Cut out the rulers, they are small but they are made to scale. If possible, print them on cardstock paper to make them sturdier.
- Pages 10-13 Travel Card Pages (1 copy of each page) Again, color copies not necessary but helpful for students. Cut out travel cards on dotted line.
- Pages 14-17 Trip Calculator Worksheets (enough copies so every student can have a minimum of 1 worksheet) Note: some students may do more than 1 worksheet, and many students will only do the One Way Short Trip Worksheet.
- If you are unsure how many worksheets to print here is the suggested number:
- One Way Short Trip Calculator Worksheet (30 copies)
- Cross Country Trip Calculator Worksheet (20 copies)
- One-Way with Pit Stop City Trip Calculator Worksheet (20 copies)
- Round Trip Challenge Calculator Worksheet (10 copies)


## Sources:

U.S. Interstate Highway System Image from: Pitstops for Kids.
http://pitstopsforkids.com/interstate-directory/
U.S. Major Cities Image from: Printable Word Maps.
http://www.printableworldmaps.net/tag/u-s-major-cities-map
Interstate Highway Sign Images from: Road Traffic Signs.
http://www.roadtrafficsigns.com/signs/interstate-5-sign/sku-k-9218-5.aspx
U.S. Cities and Interstates Map Image from: Student Guide USA.
http://www.studentguideusa.com/usa/map.html
Definitions from: Merriam-Webster, Incorporated. http://www.merriam-
webster.com/dictionary/one\�\�\�way

## How to do this activity

1. Work through the Background Information Page, answer the questions and discuss the vocabulary included on the sheet.
2. Make sure you read the Fun Facts at the bottom of the Background Information Page.
3. Look at and familiarize yourself with the three different maps of the United States

- U.S. Interstates Map
- U.S. Major Cities Map
- U.S. Interstates and Major Cities Map

4. Look at and familiarize yourself with the distance rulers provided at the table (they are mini, but they are made to scale).

## Activity Directions:

5. Draw one Travel Card at a time. Find a blank Trip Calculator Worksheet that matched your travel card.
6. Map a route on U.S. Interstates using the cities provided on the travel card. You will have to use the U.S. Interstates \& Major Cities Map and your ruler.
7. Notice that the travel cards have different difficulty levels. As you get comfortable mapping the One-Way Short Trip travel cards, move on to the next level. Here are the levels in order of difficulty:

- One-Way Short Trip
- Cross-Country
- One-Way with Pit Stop City
- Regional Round Trip Challenge Card


## Background Information Sheet

As a group consider and discuss the following questions:

1. Have you ever traveled on an interstate/freeway?
2. If so, what was your starting point? What was your ending point?
3. Have you ever traveled outside of Oregon? If so, where did you go?
4. Can you drive to Hawaii?
5. Can you drive to Alaska?

Definitions:

- Interstate (inter-state): between states
- Freeway: a wide highway that is built for fast travel often "free" from traffic lights, stop signs, or tolls
- One-Way Trip: travel to a place but not back from the place
- Cross Country Trip: extending or moving across an entire country
- Example: Portland to Washington D.C.
- Pit Stop: a short stop during a journey for rest or food or to use a bathroom
- Round Trip: a trip to a place and back often over the same or different routes


## Fun Facts:

Interstate 5 is the interstate that runs North and South through Oregon
Interstate $84 \mathbf{8 4}^{84}$ is the interstate that runs West and East through Oregon Odd numbered Interstates always run North and South
Even numbered Interstates always run West and East


Map of U.S. Major Cities


## Map of U.S. Interstates \& Major Cities





## Rulers for Measurements

Rulers from map:

| 500 Mlles | 500 Mlles |  |
| :--- | :--- | :--- |
| 500 Mlles | 500 Mlles |  |
| 500 Mlles | 500 Mlles | 500 Mlles |
| 500 Mlles | 500 Mlles | 500 Mlles |

Rulers for measuring distance:


## Travel Cards: One-Way Short Trip

| One-Way Short Trip | One-Way Short Trip |
| :---: | :---: |
| City of Departure: Portland, Oregon | City of Departure: Chicago, Illinois |
| City of Arrival: Houston, Texas | City of Arrival: Baton Rouge, Louisiana |
|  |  |
| One-Way Short Trip | One-Way Short Trip |
| City of Departure: Oklahoma City, | City of Departure: New York City, |
| : Oklahoma | New York |
| City of Arrival: Los Angeles, | City of Arrival: Chicago, Illinois |
| California |  |
| One-Way Short Trip | One-Way Short Trip |
| City of Departure: Portland, Oregon | City of Departure: Fargo, North |
| City of Arrival: Seattle, Washington | Dakota |
|  | City of Arrival: Kansas City, Kansas |
| One-Way Short Trip | One-Way Short Trip |
| City of Departure: Nashville, Tennessee | City of Departure: San Francisco, California |
| City of Arrival: Tucson, Arizona | City of Arrival: Denver, Colorado |
|  |  |
| One-Way Short Trip | One-Way Short Trip |
| City of Departure: Seattle, | City of Departure: Dallas, Texas |
| Washington | City of Arrival: Atlanta, Georgia |
| City of Arrival: Los Angeles, |  |
| California |  |

## Travel Cards: Cross Country Trip



## Travel Cards: One-Way with Pit Stop City

| One-Way with Pit Stop City | One-Way with Pit Stop City |
| :---: | :---: |
| City of Departure: New York City, | City of Departure: Albuquerque, |
| New York | New Mexico |
| : Travel | $r$, |
| Illinois | Colorado |
| City of Arrival: Denver, Colorado | City of Arrival: Seattle, Washington |
|  |  |
| One-Way with Pit Stop City | One-Way with Pit Stop City |
| City of Departure: Philadelphia, | City of Departure: Minneapolis, |
| Pennsylvania | Minnesota |
| Travel Through/Pit Stop: Des | Travel Through/Pit Stop: |
| Moines, Iowa | Cheyenne, Wyoming |
| City of Arrival: Dallas, Texas | City of Arrival: El Paso, Texas |
|  |  |
| One-Way with Pit Stop City | One-Way with Pit Stop City |
| City of Departure: Los Angeles, | City of Departure: Boston, |
| California | Massachusetts |
| Travel Through/Pit Stop: Salt Lake | Travel Through/Pit Stop: |
| City, Utah | Washington D.C. |
| City of Arrival: Seattle, Washington | City of Arrival: Miami, Florida |
|  |  |

## Travel Cards: Round Trip



## One-Way Short Trip Calculator Worksheet

City of Departure $\qquad$
City of Arrival
List of Interstates driven on: (There might only be 1 Interstate)

| Interstate | Even or Odd <br> Number? | North/South or <br> East/West? |
| :--- | :--- | :--- |
| 1. |  |  |
| 2. |  |  |
| 3. |  |  |

Use the distance ruler to measure:
Total distance (in miles)

Use the conversion 60 miles/1 hour to calculate: Total time driving (in hours)

Use the conversion 24 hours/1 day to calculate: Total days of travel (convert hours to days)

## Cross Country Trip Calculator Worksheet

## City of Departure

$\qquad$
City of Arrival
List of Interstates driven on: (There might be more than 5 Interstates)

| Interstate | Even or Odd <br> Number? | North/South or <br> East/West? |
| :--- | :--- | :--- |
| 1. |  |  |
| 2. |  |  |
| 3. |  |  |
| 4. |  |  |
| 5. |  |  |

Use the distance ruler to measure:
Total distance (in miles) $\qquad$

Use the conversion 60 miles/1 hour to calculate:
Total time driving (in hours) $\qquad$

Use the conversion 24 hours/1 day to calculate: Total days of travel (convert hours to days)

How would your total days of travel change if you were to stop to rest overnight for 10 hours every day?

## One-Way with Pit Stop City Trip Calculator Worksheet

City of Departure $\qquad$
Travel Through/Pit stop City $\qquad$
City of Arrival $\qquad$
List of Interstates driven on: (There might be more than 7 Interstates)

| Interstate | Even or Odd Number? | North/South or <br> East/West? |
| :--- | :--- | :--- |
| 1. |  |  |
| 2. |  |  |
| 3. |  |  |
| 4. |  |  |
| 5. |  |  |
| 6. |  |  |
| 7. |  |  |

Use the distance ruler to measure:
Total distance (in miles) $\qquad$

Use the conversion 60 miles/1 hour to calculate:
Total time driving (in hours)

Use the conversion 24 hours/1 day to calculate:
Total days of travel (convert hours to days)

## Round Trip Challenge Calculator Worksheet

City of Departure
Travel Through:
$\qquad$
Back to city of $\qquad$ (Arrival)

List of Interstates driven on: (There might be more than 7 Interstates)

| Interstate | Even or Odd Number? | North/South or <br> East/West <br> Direction? |
| :--- | :--- | :--- |
| 1. |  |  |
| 2. |  |  |
| 3. |  |  |
| 4. |  |  |
| 5. |  |  |
| 6. |  |  |
| 7. |  |  |

Use the distance ruler to measure:
Total distance (in miles)

Use the conversion 60 miles/1 hour to calculate:
Total time driving (in hours) $\qquad$

Use the conversion 24 hours/1 day to calculate:
Total days of travel (convert hours to days) $\qquad$

