

**Westlake High School
Driver and Student Education
Lab Experience**

Student _____ Period _____ Instructor _____

Packet Requirements Checklist:

- _____ 1. **Natural Laws** (20 points)
- _____ 2. **Traffic Survey** (50 points)
- _____ 3. **Vehicle Conservation Assignment** (50 points)
- _____ 4. **Accident / Collision Report** (20 points)
- _____ 5. **Right of Way Assignment** (35 points)
- _____ 6. **Dashboard Assignment** (35 points)
- _____ 7. **Trip Planning Assignment** (50 points)

The rest of the assignments are to be done on separate sheets of paper.

- _____ 8. **Safety Articles:** Collect 5 Articles related to safety and driving. Write a reaction statement with each article. The reaction statement must be no shorter than 4 sentences. (35 points)
- _____ 9. **Accident Journal:** Collect 5 articles from newspapers about recent accidents. Write a brief reaction statement with each article. The reaction statement must be no shorter than 4 sentences (35 points)
- _____ 10. **Safety Poster/Flyer:** Create/design a poster using any safety theme. Requirements include min. of 8 ½ x 11 to ½ sheet of poster board. Posters should be well organized and neatly done. (50 points)
- _____ 11. **Warning Signs on the Road:** Draw/color and identify ten warning signs you see on the road. Identify where the sign was located. At least five warning signs should come from the freeway. (20 points)
- _____ 12. **Essay:** **TYPE** a 500 word essay using the title “What Drives Me”, about what motivates you. (100 points)

Lab Experience Total Points = 500

/500

Natural Laws

Lecture/Discussion

Define the following:

1. Friction:
2. Loss of Friction:
3. Traction:
4. Inertia (not in book):
5. Energy of motion:
6. Gravity:
7. Force of Impact:
8. Define the road surfaces:
 - a. Flat-
 - b. Banked-
 - c. Crowned

Traffic Survey

Intersection Location: _____ Time: Start _____ End _____ (60 min)

PLEASE MARK THE TRAFFIC ERRORS YOU OBSERVE. WHEN COMPLETED AND TOTALED, TURN PAPER OVER AND DRAW THE INTERSECTION, INDICATING ANY IMPROVEMENTS THAT WOULD MAKE THE AREA SAFER. (Paint lines, signs, lights, etc...)

Traffic Errors	Tally	Totals:
Red Light		
Yellow Light		
Improper stops at sign		
Speeding		
Over running the crosswalk		
Accidents		
Wrong side of road		
Improper turn		
Improper passing		
Improper signal		
No signal		
Racing		
Reckless driving		
Obstruction of traffic		
Following to close		
Improper backing		
Drunk driving		
Failure to control vehicle		
Failure to Yield to car		
Failure to yield to pedestrians		
	Grand Total of Driving Errors:	
Distractions		
<i>Cell Phone</i>		
<i>Food</i>		
<i>Head Phones (music)</i>		
<i>Other: List on back</i>		

Grand Total of Distractions: _____

Conservation Assignment for One Vehicle

Please have an adult, preferably a parent, sign and date these as you do them.

- _____ 1. Check the oil level. Identify how to and where to put oil in the engine if needed.
- _____ 2. Check the coolant levels. Identify where to add antifreeze
- _____ 3. Check the transmission fluid. Identify how to and where to put fluid in the transmission.
- _____ 4. Check the battery for corrosion, and tell the proper way to jump start the vehicle
- _____ 5. Check the window washer fluid.
- _____ 6. Find the fuses and explain how to replace them
- _____ 7. Change a tire with your vehicle. Please perform under parent supervision.
- _____ 8. Check the level of the car's Power Steering Fluid.
- _____ 9. Check the level of the car's Brake Fluid.
- _____ 10. Check the condition of the car's hoses and belts.

I _____ witnessed _____ perform the requirements of this assignment.

Student Signature

Date

Adult Signature

Date

Collision Report

Imagine that you were in a collision. Fill out the Accident Report. Please use your information

CASE # _____

Date of Accident _____ Time _____ Location _____

Vehicle Year _____ Make _____ Model _____ Color _____ Style _____

Is the Vehicle able to drive? Y N If not name of the Wrecker _____ Direction of Travel _____

Vehicle Liesense # _____ State _____ Vehicle Expiration Month _____ Year _____

Insurance Company _____ Policy # _____

Effective Date _____ Expiration Date _____

Name of Agency that sold Policy _____ Address _____

Owner of Vehicle _____ Phone _____

Address _____ City _____ State _____ Zip _____

Driver's Name(if not the same) _____ Phone _____

Address _____ City _____ State _____ Zip _____

Date of Birth ____/____/____ Drivers License # and State _____

License Restriction _____ # of years Driving _____ License Class _____

Seat Belt On? Y N Any Injuries Y N

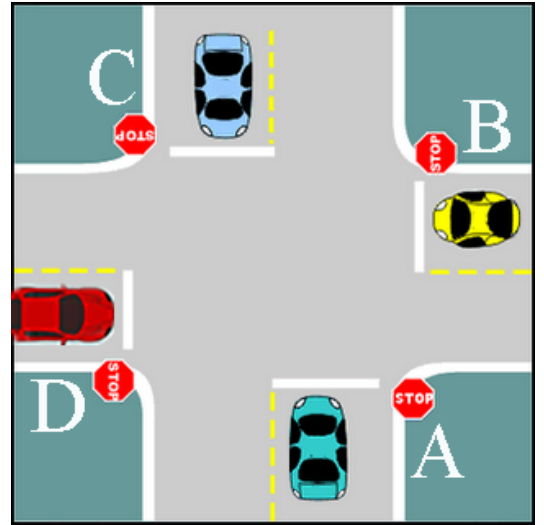
Give Color, Make, Model, License #, and state the condition of the vehicle you came in contact with:

Right-of-Way Assignment

at a

Controlled Intersection

You know, that the car that stops first at an intersection has the right of way. But when you come to an intersection and two cars stop at pretty much the same, who has the **RIGHT OF WAY**? Your task is to decide which car has the right of way in each given situation.



	All cars going Straight	1 st Car Turning Left	1 st Car Turning Right	1 st Car making U-Turn	1 st Car turning left 2 nd Car Turning Right
A - B	B	B	B	B	B
A - C					
A - D					
B - A					
B - C					
B - D					
C - A					
C - B					
C - D					
D - A					
D - B					
D - C					

Dashboard Assignment (Basic Car Control)

Sit in the driver's seat of a parked car with a licensed adult. Have the adult read each item listed below while you locate it. Continue until you can locate all of the items in the car correctly. Check the box once you have located an item. When you have completed the list, have the adult sign and date the sheet. Return the completed list to your instructor. Don't forget to fill out the back side, by filling in which basic car control fits into each of the three categories (Instrument panel, Car Controls, or Devices for safety and comfort.)

- | | | |
|---|--|--|
| <input type="checkbox"/> Dimmer Switch | <input type="checkbox"/> Speedometer | <input type="checkbox"/> Selector lever |
| <input type="checkbox"/> Ignition switch | <input type="checkbox"/> Horn | <input type="checkbox"/> High-Beam indicator |
| <input type="checkbox"/> Defroster control | <input type="checkbox"/> Rearview mirrors | <input type="checkbox"/> Parking light control |
| <input type="checkbox"/> Alternator (or generator warning light or gauge) | <input type="checkbox"/> Safety belt light | <input type="checkbox"/> Heater control |
| <input type="checkbox"/> Parking brake | <input type="checkbox"/> Safety belts | <input type="checkbox"/> Headlight control |
| <input type="checkbox"/> Steering wheel | <input type="checkbox"/> Turn-signal lever | <input type="checkbox"/> Instrument panel lights |
| <input type="checkbox"/> Seat adjuster lever | <input type="checkbox"/> Fuel gauge | <input type="checkbox"/> Foot-brake pedal |
| <input type="checkbox"/> Gearshift indicator | <input type="checkbox"/> Windshield wiper control | <input type="checkbox"/> Hood-release lever |
| <input type="checkbox"/> Turn-signal indicator | <input type="checkbox"/> Temperature light or gauge | <input type="checkbox"/> Clutch pedal (stick shift car only) |
| <input type="checkbox"/> Interior lights | <input type="checkbox"/> Odometer | <input type="checkbox"/> Accelerator pedal |
| <input type="checkbox"/> Head restraint | <input type="checkbox"/> Oil-Pressure warning light or gauge | |
| <input type="checkbox"/> Sun Visor | | |

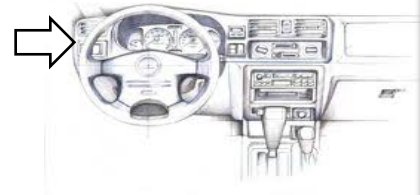
_____ has successfully located the above items in a car.
Student's Name

Adult's Signature

Date

Draw your dashboard with incredible detail from the driver's side mirror to the passenger's side mirror.

example



Trip Planning Assignment

You and some of your friends, or your family are planning a road trip. You will have to research the total time it will take to make the trip, and the cost.

Requirements:

1. Trip planned for at least 1,500 miles round trip.
2. Maximum daily miles will not exceed 400 miles.
3. Car to be used, estimated miles per gallon, size of fuel tank, and number fuel stops needed.
4. An itinerary of routes, when and where you are going to stop for gas, each night's lodging, meals, and mileage each day.
5. Expense estimate based on the following:
 - a. Fuel needed
 - i. Where you are gassing up
 - ii. Price per gallon
 - iii. How many gallons of gas you are going to use
 - iv. Total cost to gas up
 - b. Lodging - room for two, maximum \$120.00 per day
 - c. Meals
 - d. Entertainment

Example:

My wife and I will be driving from Saratoga Springs, UT to Seattle, WA

Car – Honda Pilot, 18 mi per gallon, 19 gallon tank

Route – I15 north to the 84 West, to the 82 West, to the 90 West, then the I5 north

Day 1 driving from Saratoga Springs to Boise, ID. Estimated travel time 7 hours, 380 mi

6:00 am Leave Saratoga Springs heading north on I15

9:30 am Arrive at Burley ID for breakfast - \$5.00 per person = \$10

10:00 am Gas up, have traveled 220 mi – 12.2 gallons of gas
\$3.15 per gallon at the Smith's (937 E Main St & Hiland Ave)= \$38.50

10:15 am Leave Burley

12:45 pm Arrive at Boise ID and gas up. Have traveled 165 mi @ 18 mi per gallon = 9.2 gallons. Gas up at the Exxon (284 W Hayden Ave & US-95) at \$2.79 per gallon = \$25.60

1:00 pm check into hotel – Hotel 43 (981 Grove St, Boise, ID 83702) \$121

meals in Boise \$7 per person for lunch = \$14, \$12 per person for dinner = \$24. \$11 per person for the movie, with candy and soda = \$22

Day 1 travel expenses are \$256