

Driver Education
Classroom and In-Car Curriculum

Unit 3

**Understanding Vehicle
Control: Starting, Steering
and Stopping**



Unit 3 Understanding Vehicle Control: Starting, Steering and Stopping

Starting the Engine and Moving the Vehicle Forward

Worksheet 3.1

Name _____

Date _____

Directions: Using the steps under each different procedure, number the steps in the correct order.

Starting the engine procedures

- _____ 1. As soon as the engine starts, release the key
- _____ 2. Turn ignition on and check gauges
- _____ 3. Set needed accessories and adjust ventilation (HVAC)
- _____ 4. Check to be sure parking brake is set
- _____ 5. Allow engine to idle no more than 15 to 20 seconds (observe gauges and dash lights to make sure all indicate normal functioning)
- _____ 6. Turn key clockwise to start engine
- _____ 7. Place foot on brake
- _____ 8. Turn on low beam headlights (use headlights at all times)
- _____ 9. Check selector lever for park position

Moving the vehicle forward procedures

- _____ 1. Look well ahead along intended path of travel
- _____ 2. Signal when clear
- _____ 3. Release parking brake
- _____ 4. Steer as needed to place vehicle in center of lane
- _____ 5. With foot on brake, shift to drive "D"
- _____ 6. When safe, release brake pedal and press gently on the accelerator
- _____ 7. Cancel signal
- _____ 8. Check mirrors and over shoulder for traffic
- _____ 9. Position hands on steering wheel. Left between 7-9 and right hand between 3-5 o'clock



Moving to Curb/Side of Road and Entering a Roadway from a Curb

Worksheet 3.3

Name _____

Date _____

Directions: Using the steps under each different procedure, number the steps in the correct order.

Moving to curb/side of road procedures

- _____ 1. Press brake pedal to point of resistance
- _____ 2. Signal
- _____ 3. Tap brake pedal to alert following drivers
- _____ 4. Steer gently toward curb
- _____ 5. Identify place to park
- _____ 6. Apply firm, steady pressure for smooth stops. Do not pump brakes.
- _____ 7. Release accelerator
- _____ 8. Check mirrors
- _____ 9. Check to assure vehicle is centered between front and rear lines
- _____ 10. Use reference points to position vehicle legal distance from the curb

Entering a roadway from a curb procedures

- _____ 1. Check mirrors for traffic to the rear
- _____ 2. Look well ahead along intended path of travel
- _____ 3. Signal and check traffic to front, side and rear
- _____ 4. Cancel signal
- _____ 5. Release brake and accelerate gently
- _____ 6. Identify a safe gap in traffic
- _____ 7. Steer into intended path of travel
- _____ 8. Project visual search 20 to 30 seconds ahead
- _____ 9. Check for motor vehicles and other highway users to the sides of the path of travel

Stopping and Securing the Vehicle

Worksheet 3.4

Name

Date

Directions: Using the steps under each different procedure, number the steps in the correct order.

Procedures for securing the vehicle

- _____ 1. Turn off accessories and headlights if no daytime running lights (DRL's)
- _____ 2. Check traffic to rear, exit vehicle carefully, and lock doors
- _____ 3. Shift selector lever to PARK position
- _____ 4. Unfasten safety belt
- _____ 5. Come to a complete stop with the wheels turned toward or away from the roadway as appropriate
- _____ 6. Turn ignition to lock and remove key
- _____ 7. Keep right foot on the brake pedal and set the parking brake

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Backing		Worksheet 3.5
Name	Date	
<p>Directions: Using the steps under each different procedure, number the steps in the correct order.</p>		
<p><u>Procedures for backing a vehicle straight</u></p> <p>_____ 1. Search through rear window and then glance forward</p> <p>_____ 2. Release accelerator and apply pressure on brake pedal to stop</p> <p>_____ 3. Place foot on brake pedal and shift to reverse</p> <p>_____ 4. Make minor steering corrections as needed</p> <p>_____ 5. Grasp steering wheel at 12 o'clock with left hand</p> <p>_____ 6. Look to rear until vehicle is stopped</p> <p>_____ 7. Prior to moving vehicle, check for objects to the rear</p> <p>_____ 8. Turn body to right with right arm over back of seat or on center console</p> <p>_____ 9. Move backward at idle speed, or use light accelerator pedal pressure if needed</p>	<p><u>Procedures for backing and turning</u></p> <p>_____ 1. Continue backing and straighten/rewind steering wheel to straight</p> <p>_____ 2. Grasp steering wheel with both hands at 9 and 3 o'clock position</p> <p>_____ 3. Steer smoothly in direction vehicle is to move</p> <p>_____ 4. Turn body in direction of turn</p> <p>_____ 5. Look to rear until vehicle is stopped</p> <p>_____ 6. Place foot on brake pedal and shift to reverse</p> <p>_____ 7. Release accelerator and apply pressure on brake pedal to stop</p> <p>_____ 8. Move backward at idle speed, or light accelerator pedal pressure if needed</p> <p>_____ 9. Signal left or right as appropriate</p> <p>_____ 10. Prior to moving vehicle, check for objects to the rear</p> <p>_____ 11. Make quick checks to front corner, opposite of turn (front swing)</p> <p>_____ 12. Search through rear side window in direction of turn</p>	



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Unit 3 Words to Know Matchup

Worksheet 3.6

Name _____

Date _____

Directions: Match the clues on the left with the words in the list on the right. Place the matching letter in the blank to the left of the number.

- | | | | |
|----------|---|----|-------------------------|
| _____ 1. | Steering technique which permits the driver to make steering inputs while keeping both hands on the wheel. | A. | Aggressive acceleration |
| _____ 2. | Releasing brake pressure from the brake pedal allowing the low idle of the engine to move the vehicle forward. | B. | Coasting |
| _____ 3. | Application of brake pressure to a point just short of locking up the brakes, resulting in maximum braking capability. | C. | Controlled braking |
| _____ 4. | Resting your right hand between 3 and 4 o'clock and resting your left hand between 8 and 9 o'clock on the steering wheel. | D. | Engine acceleration |
| _____ 5. | Braking done with sufficient pressure to slow the vehicle. | E. | Hand-over-hand steering |
| _____ 6. | Steering technique well suited when speed of the steering movement is critical, such as skid recovery in a rear wheel traction loss (vehicle over-steer). | F. | Hand position |
| _____ 7. | Firm pressure on the accelerator to increase speed of the vehicle rapidly. | G. | Hand-to-hand steering |
| _____ 8. | Light accelerator pressure allows a slow forward motion of the vehicle. | H. | Light acceleration |
| _____ 9. | Releasing the accelerator to stop the vehicle's forward propulsion. | I. | Threshold braking |

