

## Driving Instructor Structured Lesson Planner #5

**5. Changing Gears** *Learner can change gears smoothly & efficiently for road conditions, speed & vehicle requirements*

### Student Details

Name	
Address	
Lic#	Expiry / /
Ph#	DOB / /

### Instructor Details

Driving School	
Name	
Lic#	Instr#
Rego	Auto <input type="checkbox"/> Manual <input type="checkbox"/>
Start Time	Finish Time
Date	

1. Have you done any driving?: Y N	2. With who? Parent <input type="checkbox"/> Friend <input type="checkbox"/> Driving School <input type="checkbox"/>
3. How many hours driving?	4. Vehicle type? Manual <input type="checkbox"/> Auto <input type="checkbox"/> Own <input type="checkbox"/>

<b>Pre Preparation</b>
<b>Learner driver needs:</b> <i>(To be completed by supervising driver and learner driver to determine lesson content. All * areas to be completed)</i>
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<b>Lesson Preparation</b>
<b>Resources required:</b> <i>Learner driver log book Section 5</i> <i>Driving School Teaching Aids</i>
<b>Planned location/s for session:</b> <i>A quiet low level traffic area with intersections requiring slowing, stopping and turning.</i>

<b>Revision</b> <i>(Recap of previous topic, if applicable)</i>	Suggested time: (5 minutes)
<b>Confirm what the learner already knows and ask these questions before the lesson:</b> Q. How is smooth operation of controls related to safety and efficiency? Q. What does a clutch do and how does it work? Q. When should you manually select gears in a vehicle with an automatic gearbox?	

<b>Introduction</b>	Suggested time: (5 minutes)
<b>Learning goals to be covered during the lesson:</b> <i>Explain and demonstrate smooth and efficient gear changing. You need to be confident with gear changes so that they can be made competently to suit road conditions, speed and vehicle requirements.</i>	

**Main Body** Suggested time: (45 minutes)

**Reasons for learning:**

**Gear changing in a manual car is essential.**

- Competence with gear changing allows driving the vehicle to its potential in each available gear.
- Each gear is important: 1<sup>st</sup> gear to start, 2<sup>nd</sup> & 3<sup>rd</sup> are working gears, 4<sup>th</sup> & 5<sup>th</sup> gear are cruising gears.
- Gear changing like steering, is a physical skill that requires judgement, timing, technique and coordination.
- You will only become competent at this new skill by being patient and practicing.
- Gear changes can also be made in automatic vehicles. Different gears such as low or 2<sup>nd</sup> gear may help reduce the amount of work on brakes when travelling down hills or slopes.

**By the end of the lesson the learner will be able to:**

*Change gears up or down while increasing or decreasing speed, smoothly without over revving or labouring the engine.*

**Instructor to discuss and demonstrate:**

- Explain and demonstrate the palming technique (Manual)
- Utilise 6 step procedure for the manual gear changing technique
- Explain and demonstrate gear selections of an Automatic transmission.
- Utilise 6 point procedure for Automatic gear selection

**How student can apply knowledge and skills in a range of appropriate contexts and situations:**

*(Instructor tip: Maximise student practice time)*

- Student to explain each gear (individualise for manual and automatic).
- Student to discuss the palming technique.
- Student to explain the 6 step gear changing procedure before a practical demonstration of the technique. (manual or automatic)

**Recap Learning Goals** Suggested time: (5 minutes)

**Lesson Summary:**

**Gear changing is a physical skill that requires coordination and timing.**

- Correct gear changing will assist with the smooth operation of the vehicle throughout your journey.
- Rushing gear changes will cause mistakes in the selection of the correct gear.
- Forcing gears during the up change may result in a missed gear causing low rev and no power when required.
- Forcing gears or rushing when changing down may engage a lower gear than required & undue engine revving.
- Severe forces can cause rapid deceleration and potential disorientation for the driver. This can be overcome with patience, practice and confidence.

**Identify Student Strengths:**

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**Identify areas for further development:**

\*

**Link to the Learner driver log book learning goals for next lesson:**

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**My areas for further development have been explained to me.**

<b>Learner Signature</b>
Date     /     /

<b>Instructor Signature</b>
Date     /     /

