

Animation Worksheet: Dual Clutch Transaxle

Name: _____ **Date:** _____

1. A dual clutch transaxle is a type of _____ manual transmission often used in front-wheel-drive vehicles.
2. The transaxle works by integrating the gearbox and _____ into a single unit.
3. It uses two _____ clutches to manage power delivery.
4. One clutch is for the odd-numbered gears (1, 3, 5), while the other is for the _____-numbered gears (2, 4, 6) and reverse.
5. Gears are selected by hydraulic or electro-hydraulic _____ that actuate shift forks.
6. When in neutral, all servos are in their _____ center positions.
7. During a shift into first gear, the 1-3 servo engages the _____ for first gear.
8. The _____ pinion, which is the smallest gear, meshes with first gear on the shared output shaft.
9. The _____ of the clutches during a gear change ensures there is minimal torque interruption.
10. The _____ gear reduces engine load to help with top-end economy.