

Animation Worksheet: N-D Shift

Name: _____ **Date:** _____

1. When a transmission is shifted from neutral to drive, a series of hydraulic and _____ events take place.
2. The transmission pump is driven mechanically by the engine, typically by the _____ converter.
3. To maintain safe and effective levels of hydraulic force, line pressure is regulated by the pressure _____ valve.
4. When the transmission is in neutral, the manual valve blocks fluid flow to the _____ clutch, meaning no power goes to the gear set.
5. Moving the shift lever from neutral to drive slides the manual valve inside the valve body to the _____.
6. Once shifted into drive, the manual valve directs pressurized fluid to the forward clutch apply circuit, the shift valves, and the _____.
7. The governor and shift valves control automatic gear changes based on two main factors: vehicle speed and _____.
8. When pressurized fluid enters the forward clutch apply circuit, the resulting hydraulic pressure forces the _____ to move.
9. To provide the proper gear ratio at launch, this vehicle relies on a _____ reaction clutch to hold certain gear set elements.
10. To create the reduction needed for first gear, the one-way clutch holds a planetary gear member _____.