

Animation Worksheet: Shuttle Valve

Name: _____ **Date:** _____

1. The shuttle valve is designed to control the direction of _____ fluid flow within the transmission.
2. When the driver selects Manual 1, the shuttle valve moves to close the _____ passage.
3. By closing the reverse passage, the shuttle valve ensures that the transmission remains in a _____ gear.
4. With the reverse passage closed, hydraulic pressure is redirected to the _____.
5. The hydraulic pressure redirected by the shuttle valve applies the low-reverse _____.
6. Engaging the low-reverse clutch allows the transmission to engage its lowest _____ ratio.
7. When the transmission is shifted into reverse, the shuttle valve moves to close the _____ passage.
8. As the shuttle valve closes the Manual 1 passage, a check _____ moves to shut off an air bleed.
9. Shutting off the air bleed maintains the necessary hydraulic pressure in the system and prevents fluid from _____.
10. Shifting the transmission into _____ causes the check ball to drop, which opens the air bleed and releases hydraulic pressure.