

Animation Worksheet: FWD Drivetrain

Name: _____ Date: _____

1. In a front-wheel-drive layout, the engine's power is sent to the front wheels to provide both propulsion and _____.
2. The _____ is the primary power source of the vehicle, which produces mechanical energy by burning gasoline or diesel.
3. In modern compact and mid-size vehicles, the engine is typically mounted _____ (sideways) to reduce space usage.
4. The _____ is the component responsible for connecting or disconnecting the engine from the transaxle.
5. When a driver presses the clutch pedal, it interrupts the _____ flow, allowing for gear changes without stalling the engine.
6. A(n) _____ is a component that combines the functions of the transmission and the differential into one unit.
7. The _____ allows the front wheels to rotate at different speeds, which is especially important when the vehicle is turning.
8. Mechanical power is transferred from the differential to the front wheel hubs using components called _____.
9. Each half shaft is equipped with _____ joints at both ends, which allow the shafts to flex while rotating.
10. The flexibility provided by these joints allows the wheels to steer and move up or down with the vehicle's _____ travel.