

## Animation Worksheet: RWD Drivetrain

Name: \_\_\_\_\_ Date: \_\_\_\_\_

1. The rear-wheel drive powertrain of a vehicle is a mechanical system that transfers power from the \_\_\_\_\_ to the rear wheels to propel the vehicle.
2. The engine produces rotational power, also known as \_\_\_\_\_, by converting fuel and air into energy via internal combustion.
3. In a manual transmission vehicle, the \_\_\_\_\_ connects or disconnects the engine from the transmission.
4. On automatic transmission vehicles, a \_\_\_\_\_ performs a similar role using fluid coupling instead of a friction disc.
5. The transmission adjusts engine torque and speed through \_\_\_\_\_.
6. The output of the transmission is a rotating \_\_\_\_\_ that spins faster or slower depending on the selected gear.
7. The drive shaft features \_\_\_\_\_ joints at each end to allow for movement and flex as the vehicle's suspension shifts.
8. The \_\_\_\_\_ is housed in the rear axle and performs the final gear reduction.
9. The differential is critical during cornering because it allows the left and right wheels to spin at \_\_\_\_\_ speeds.
10. Finally, the \_\_\_\_\_ convert the transmitted torque into forward motion by pushing against the road surface.