

Animation Worksheet: Torque Converter Fluid Flow

Name: _____ Date: _____

1. A torque converter consists of several key components that work together to transfer power from the vehicle's engine to the _____.
2. The impeller is connected directly to the engine's _____ and rotates at the exact same speed as the engine.
3. The turbine is connected to the transmission _____ shaft and receives fluid from the impeller.
4. As the fluid strikes the turbine blades, it causes the turbine to rotate, which transfers _____ to the transmission.
5. The stator is positioned between the impeller and the turbine, and its main job is to redirect the fluid returning from the _____.
6. The stator is equipped with a _____ clutch that allows it to rotate in only one direction.
7. When the impeller spins, it flings transmission fluid outward due to _____ force, which increases the fluid's velocity.
8. The stator enhances overall efficiency by increasing the fluid's _____ as it heads back to the impeller.
9. During cruising conditions, the torque converter may operate in a nearly _____ state to minimize slippage.
10. This direct coupling between components reduces energy losses, leading to smoother driving and improved fuel _____.