

Animation Worksheet: Mechanical Diode

Name: _____ **Date:** _____

1. Mechanical diodes are used in torque limiters, free wheel clutches, and _____ bearings.
2. The _____ plate is the main driven plate with 8 struts.
3. Struts are spring-loaded or _____ arms that extend radially.
4. The struts are mechanical _____ or arms attached to the pocket plate.
5. The _____ plate is a freewheeling intermediate plate with 8 cavities.
6. When the pocket plate rotates _____, the struts gently ride over the notches.
7. When freewheeling occurs, it means that no _____ is transmitted to the next component.
8. When the pocket plate is rotated _____, the struts swing back into the notches.
9. During reverse input, the notch plate drives the pocket plate in a _____ direction.
10. A mechanical diode behaves similarly to a _____ mechanism, but is bidirectional in structure and unidirectional in force transmission.