REC 1.9: Drive Train Name:

Terms in bold may be found in the glossary.

1. A robotic drive train is a system of components - including \_\_\_\_\_\_\_\_\_\_\_\_\_\_ - that allows the robot to move from one point to another.
2. A **motor** converts \_\_\_\_\_\_\_\_\_\_\_\_\_ energy into \_\_\_\_\_\_\_\_\_\_\_\_ energy.
3. How many degrees can a continuous motor turn?
4. What is a gear box?
5. What does PWM stand for?
6. Each motor has a removable coupler and post. What two functions does the coupler serve?
7. \_\_\_\_\_\_\_\_\_\_\_ transmits force and motion in machines.
8. What is meshing?
9. What three things can gears do?
10. What is the most common type of gear?
11. Define gear ratio.
12. A 40T gear meshes with a 20T gear. What is the gear ratio?
13. What happens if the center to center distance is too long? Too short?
14. What happens if gears do not align?
15. What is a simple machine? Give an example.
16. \_\_\_\_\_\_\_\_\_\_\_ provides excellent traction. Define traction.
17. A **\_\_\_\_\_\_\_\_\_\_\_** with a plastic hub which can be used as a caster.Define caster.
18. What is used to reduce friction in a machine?
19. What purpose do shafts and collars serve?
20. Define drive train.
21. What is a drive trains worst enemy?