



1. At least two transport robots can follow lines – using **Return** to advance for loading and **Haulage** to move gravel to dump.
2. At least two transport robots can advance and haul through the rock field.
3. One robot is identified as the Maintenance Robot – this robot can be signalled to "retrieve" downed robots and allow them to be moved to the Maintenance Shop for repair – the Maintenance Robot may operate tele-robotically.
4. All robots can use the IR signals to navigate or identify their location.
5. The Lego robot is the loading robot and must operate within the Loading Zone to move gravel into position for pick-up or loading of the transporters.
6. The Lego robot may operate tele-robotically.
7. The transport robots are placed on the field of play one at a time at the Maintenance Shop.
8. All four transport robots operate autonomously, but they can receive commands wirelessly through Bluetooth and they can communicate with one another.
9. Transport robots can be removed from the table for maintenance if the Maintenance Robot moves to their downed location and touches them.
10. After repair, they are replaced on the field of play at the Maintenance Shop.
11. Each test run will last 15 minutes duration.
12. The team that moves the most gravel in 15 minutes wins the competition.
13. Each team will have three test runs. The best result will be the team's score.