

SNC 21 Robotics Project – Choo – Choo Challenge

Overview:

Two teams will partner to complete a course.

Specifics:

Two teams will compete as one. Each alliance will require its robot to manoeuvre around a course laid out on the classroom floor. The robots must be connected by a method of your choice.

Beginning at the start / finish line, alliances will attempt to complete one entire lap of the course. Alliance robots must stay between the race course lines. Touching a race course line will result in a penalty. Both robots must complete the course.

It is estimated that the project will cover 5 class periods. Definitive project completion and submission dates will be determined as class progress is monitored. Final submissions should include a title page, minimum 1 page summary, 1 picture of your completed robot and 1 picture of your robot during construction, and a copy of all programs.

Base Marking Scheme:

Alliances that successfully complete 1 lap and submit their completed assignment on time according to the above directions will receive a minimum mark of 90%.

Alliances that successfully complete $\frac{1}{2}$ a lap and submit their completed assignment on time according to the above directions will receive a minimum mark of 80%.

Bonus Marking Scheme:

Bonus marks will be won or lost according to the following schedule:

Fastest time around the entire track	+ 10 %
Slowest time around the entire track	+ 10 %
Touching a race course line (each infraction)	- 1 %
Quality of written presentation	+/- 10 %

Late penalties: 1 class – 10% 2 classes – 20% 3 classes teacher discretion

Remember,

ROBOTICS ROCKS!