VEXcode VR Skills Challenge *High School*



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The second green triball is picked up and scored (15 points total).

Pick up One Green Triball

turn to heading 🛛 245 🗋 degrees 🌓

turn to heading 🛛 80 🕽 degrees 🖒

spin IntakeMotor 💌 outtake 💌

turn to heading 240 degrees 🕨

turn to heading 🛛 65 🕽 degrees 🕨

spin IntakeMotor - outtake -

turn to heading 🚺 degrees 🕨

turn to heading 🛛 -55 🗋 degrees 🌓

turn to heading 120 degrees 🕨

spin IntakeMotor 🔻 outtake 🕶

drive forward - for 800

drive forward - for 800

Score 5th Triball in Red 25

drive forward 🗢 for 1000 mm 🕶

drive forward 🔻 for 700

Pick up One Green Triball

spin IntakeMotor -

Score 4th Triball in Red 20

drive forward - for 850 mm -

drive forward - for 650

wait 0.1 seconds

Pick up One Green Triball

spin IntakeMotor 💌

Score 3rd Triball in Red 15

drive forward - for 600 mm -

intake -

mm 💌

mm 👻

mm 🔻

mm 💌

intake •

intake 🔻

D

spin IntakeMotor 💌



The third green triball is picked up and scored (20 points total). This triball was in an awkward angle to get, so we rotated the robot while the intake roller was spinning to increase the chance of picking up the triball.



The robot moved to the upper part of the map.

The fourth green triball is picked up and scored (25 points total).





The robot travels to loading zone 1 to prepare for match loading. The robot reaches here with 34 seconds left.

TriballHeading: the additional bearing that the robot will be traveling per preload TribalDriveDistance: the additional distance that the robot will travel per preload

> After picking up the preload, the robot turns to the correct bearing and travels a certain distance, which are both slightly different for every match load. The robot travels to roughly the center of the map to throw the ball into the goal. In the meantime, the arm positions itself in the correct angle for launch (1050 was the ideal condition for us).

The robot travels the same path back to the load zone, and the variables are incremented. We shoot a total of 5 triballs into the goal (totaling up to 65 points).



Start Preparing for Triball Match Load

turn to heading 0 degrees

turn to heading 315 degrees 🕨

drive forward - for 650

Start Match Load

drive forward - for 600 mm -

intake -

D

mm 💌

spin IntakeMotor -

