

# PASTA POD RACERS

## STEM CHALLENGE DIRECTIONS

### The Challenge

There are only three races left in the Sprint Cup Series. You have a request from your favorite driver to create a car worthy of competing in the next race. The driver wants a car with the speed and handling to beat all his competitors potentially. The upcoming race is the longest of the season, so the car must travel a long distance in a short period. Of course, you accept the driver's challenge because of your academic thrill-seeking personality.

Due to the expense of auto parts and racetrack rental fees, you design a model car made from inexpensive materials, pasta, and hot glue/glue and use a whiteboard ramp to simulate a race track. Since a stock car driver is only as good as his supporting team, you may recruit two team members who will strengthen your team based on their diverse skills.



### MATERIALS

Two lasagna noodles  
4 wagon wheel noodles  
Your choice of other noodles  
Hot Glue



### GOAL

Your racer should travel at least one meter from the bottom of the ramp. The pasta pod racer that travels the farthest will be declared the winner, and the design team will be handsomely rewarded.