

THERE AND BACK AGAIN

Challenge: Your TASK is to make a vehicle that will move past a start line come close to the finish line and return back to the start line.

Time: You will have 10 minutes to use your IMAGINATION to build your vehicle and then 2 minutes to race your vehicle.

Set-up: On the floor is a race track that has a start line and finish line separated by three feet. There is also a table of materials and a pair of scissors.

Procedure:

Part one (10 minutes): Use the materials on the table to build a vehicle that will be able to move from the start line to the finish line and return back to the start line. All of the materials provided may be modified. The scissors may be part of your vehicle but may not be modified. You may test your vehicle on the race track during this time but no scoring will occur until part two.

Part two (2 minutes): Your vehicle must move past the start line to the finish line and return to the start line. You may not touch any part of your vehicle once any part of the vehicle is past the start line. Any materials that pass the start line or touch the vehicle are considered part of the vehicle. If the vehicle is touched you may restart the race but no scoring will occur.

Scoring: You will receive

- A. One point for every inch of progress towards the finish line measured at the forward most part of the vehicle along the centerline of the race track (max 36).
- B. Ten points for every inch returned back towards the start line as measured from the point of furthest advance to the forward most part of the vehicle (max 360).
- C. One point will be deducted for each inch of progress past the finish line.
- D. Up to 20 points for how creatively you use your materials.
- E. Up to 20 points for how well your team works together.

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Materials:

- 2 Pieces of Paper
- 10 Mailing Labels
- 10 Paper Clips
- 10 Rubber Bands
- 6 Straws
- 4 Lids
- 4 CDs
- 2 Pencils
- 6 Craft sticks
- 1 Round Oatmeal Container
- 1 Roll of Pennies
- 24" Piece of String