

LEGO STEM PRESENTS:

WIND RACER CHALLENGE



Name: _____

WIND RACER CHALLENGE

Directions: Use your materials (Legos, 6-inch wooden dowel, 4x5 piece of paper) to create a car that will be powered only by wind (fan).

How will you use your materials to create a car? Questions to ask yourself:

- Should my design be light? Heavy?
- Should my design be wide? Narrow?
- How will I attach my wooden dowel and flag? (no tape allowed)

What steps did you take to create your car design?

What did your Wind Racer look like? Please draw a picture below.

Teacher Directions:

1. Students will work with a partner/team to construct a car made of Legos. They should complete the form on page 2 before constructing.
2. They will need to also figure out how to attach the 6-inch wooden dowel and 4x5 piece of paper. No tape allowed! They should decorate the paper to represent their team.
3. Once cars are ready, create a starting line and finish line about 3 feet apart on a flat, hard surface. Place a large square fan behind the starting line.
4. Students will give their car a test run before any races take place. They will place their car at the starting line and put the fan on HIGH.
5. Students will make modifications after each test run until car successfully crosses the finish line.
6. Let the races begin! You should have no more than 4 cars race at a time so the wind is dispersed evenly by the fan.

