

Name:

Date:

Class:

## Vehicle Design Options & Specifications Sheet

### Car Option A

- (a) Vehicle must have four tires (with axles), wind shield, steering wheel, and roof.
- (b) All tires must be medium soft.
- (c) Vehicle base width and length are 4 dots and 8 dots, respectively.
- (d) Vehicle weight between 30 and 40 grams.
- (e) Vehicle height must fit a sitting driver.
- (f) Maximum different colors of the car is 6 (including color of tires and steering).
- (g) Car price is \$10.

### Car Option B

- (a) Vehicle must have four tires (with axles), wind shield, steering wheel, and roof.
- (b) All tires must be large soft.
- (c) Vehicle base width and length are 6 dots and 8 dots, respectively.
- (d) Vehicle weight between 55 and 70 grams.
- (e) Vehicle height must fit a sitting driver.
- (f) Maximum different colors of the car is 7 (including color of tires and steering).
- (g) Car price is \$15.

### Car Option C

- (a) Vehicle must have four tires (with axles), wind shield, steering wheel, and roof.
- (b) All tires must be small soft.
- (c) Vehicle base width and length are 4 dots and 6 dots, respectively.
- (d) Vehicle weight between 20 and 30 grams.
- (e) Vehicle height must fit a sitting driver.
- (f) Maximum different colors of the car is 5 (including color of tires and steering).
- (g) Car price is \$9.

### Car Option D

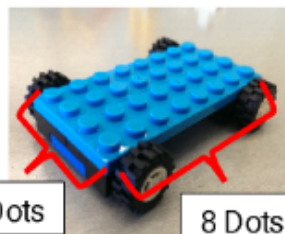
- (a) Vehicle must have four tires (with axles), wind shield, steering wheel, and roof.
- (b) All tires must be medium hard.
- (c) Vehicle base width and length are 4 dots and 10 dots, respectively.
- (d) Vehicle weight between 30 and 35 grams.
- (e) Vehicle height must fit a sitting driver.
- (f) Maximum different colors of the car is 6 (including color of tires and steering).
- (g) Car price is \$7.5.

#### Wheel Assembly

All tires need rims and axles.



#### Base Dot Configuration

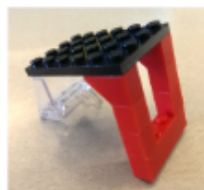


4 Dots

8 Dots

Design Tips and Tricks

#### Driver Height



Need 4 blocks high for driver height requirement.

- ☐ Customers must be able to get in and out of the vehicle and see where they are driving while traveling
- ☐ The vehicle must be able to travel and stay on the ramp in order to cross the finish line fully intact.
- ☐ Vehicle must remain intact following a 2' drop.