

Name: _____

TYWLS Derby – Energy-Efficient Car Proposal

Directions: Based on the data collected by your classmates, your TYWLS Derby group will need to choose 3 variables that will be used to build the car you will be racing on Friday. You will need to justify your choices based on the data collected and the knowledge you have gained about the *Laws of Motion, Friction, and Mass*.

Car Component	Your Group's Choice	Supporting Data

Use the space below to draw a blueprint of your proposed car. Be sure to include any measurements and labels to indicate the changes you are making to the car.

Use the space below to explain how your car demonstrates the Laws of Motion.

Law of Motion	The Law Says...	How My Car Demonstrates the Law
Law of Inertia		
Law of Acceleration		
Law of Action-Reaction		

Rubric:

	Not Yet	Meets Standards	Exceeds Standards
Apply the use of appropriate <u>scientific vocabulary</u> in context		___ Student uses scientific vocabulary in basic context	___ Student expands upon and applies meaning of the word within context ___ Student makes connections between past and/or current topics
Explain a concept with relevant facts, details, or examples		___ Student explains a concept with relevant details or examples from given resource	At least one of the following: ___ Student explains concept and expands with new examples and evidence ___ Student makes connections between past and/or current topics