

Whitebox learning c02 car



**ASSIGN
BUSTER**

What is the minimal length of the car body? 275 mm
What is the minimal length of the car body? 285 mm
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How far away can the axel hole be from the bottom (minimum)? 8mm
How far away can the axel hole be from the rear of the body (minimum)? 9mm
How wide can the CO2 be (Maximum)? 42mm
What is the formula for force? Force = Mass X Acceleration
What is Aerodynamics? The Study of airflow and the forces involved when an obj moves through the air, or when it moves past an object
What is lift? lift-is a force that acts 90° to the direction of travel of an object.

10. for lift to occur there has to be present a type of airflow called laminar flow present.

11. Lift becomes a downward force in racecars. That is a good thing because it actually helps keep the car on the ground giving its tires much needed traction (the force that causes a moving thing to stick against the surface it is moving along) which creates friction and that is good for cars. What is drag? is a force that is parallel to the motion of an object and directly opposes its motion. In other words, drag is a force that pushed back against an object in motion. What is friction? a force that is generated when two or more surfaces come in contact with each other.

*Friction converts mechanical energy into heat energy.

we want to reduce friction in our dragsters as much as possible because we don't want dragsters that are hot (in terms of temperature). We want dragsters that are fast. Therefore, we want to reduce friction in our dragsters as much as possible.

* Friction is a force that appears whenever two things rub against each

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other.

* Although two objects might look smooth, microscopically, they're very rough and jagged