

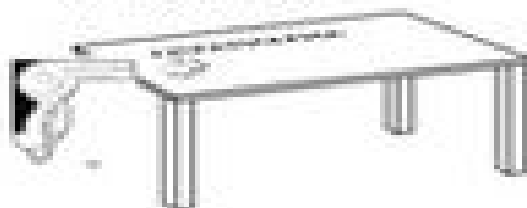
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Name: _____ Date: _____

How does changing the force of wind affect how far the wind will push a toy car?

Materials

- toy car
- meter stick or ruler
- hair dryer
- table
- balance
- calculator (optional)



Directions

1. Use the balance to measure the mass of the toy car.
2. Place the meter stick or ruler on top of a table or desk. Set the toy car next to the zero on the ruler.
3. Aim the hair dryer at the car from the end of the table. The hair dryer will stay in the same place during the experiment.
4. Turn on the hair dryer to the low, medium, or high setting. Record how far the air pushes the toy car. Use the ruler or meter stick to measure the distance.

Mass of the Toy Car: _____ grams

| Hair Dryer Setting | Distance toy car was pushed by hair dryer (cm) | Average Distance (cm) |
|--------------------|--|-----------------------|
| Low | Trial 1: _____ Trial 2: _____ Trial 3: _____ | |
| Medium | Trial 1: _____ Trial 2: _____ Trial 3: _____ | |
| High | Trial 1: _____ Trial 2: _____ Trial 3: _____ | |

When you increase the force, what happened to the distance the car traveled?

How does this experiment relate to the story gone about the chopping cart in the parking lot?