

# Revenge of the Crash Test Dummies

Names \_\_\_\_\_

**Your Job:** To design and build a wall capable of withstanding the impact of a speeding vehicle driven by angry crash test dummies.

**The Scenario:** Crash test dummies have done a lot for us. They are used in countless simulations to assess the safety of various vehicles and products. The results are used to protect people. Since they aren't real, they can't get hurt. But what if they had a chance to get a little revenge? Here's their chance.

**The Task:** You are going to build a wall and the crash test dummies are going to try to demolish it with their car.

## **Specifications:**

You may use the following materials:

- 1 sheet of paper
- 6 straws
- 30 cm of masking tape
- 10 cm of duct tape (only for anchoring the wall to the floor)
- scissors (for use as a cutting tool only)
- ruler (for use as a measuring tool only)

***The wall must be at least be at least 15 cm wide and 15 cm high.***

## **Procedure**

1. Use the materials to build your wall. Make sure it meets the specifications.
2. When the wall is ready, take it to the testing station and get in line.
3. When it is your turn, you will have 30 seconds to get it ready for the test.
4. After 30 seconds, the crash test dummies will ride their car into the wall.
5. Remove your wall, return to your workstation and try again. Record the results on your data sheet.

## **Testing**

To be considered a success, the wall must show little or no movement and it can't bend or crumple when the car hits it. If the car goes through or past the wall altogether, the crash dummies win!

1. Place your wall on the line at the testing station. You have 30 seconds to do so.
2. When 30 seconds are up, the crash test dummies will travel down towards the wall.
3. After the test, assess the results and record them on the data sheet.

## **Results**

You win if...

The wall shows little or no movement

Crash Test Dummies win if...

The wall collapses

The wall crumples

The car goes over the wall

The car goes through the wall

Test #	Who won?	Why?	What will you do now?
1			
2			
3			
4			
5			