-JR-ENGINEERS BALLOON CAR

Get kids thinking about how things go by setting up this super simple balloon car physics activity that is more like play!

INSTRUCTIONS

STEP 1: Cut off two lollipop sticks.

STEP 2: Hot glue the sticks to two bottle tops.STEP 3: Use the hole puncher to punch four holes

in the toilet paper tube to attach the wheels.

STEP 4: Stick the lollipop sticks through the holes, and then glue on the remaining two tops/wheels.

STEP 5: Punch another hole in the top of the tube near the front of the car.

SUPPLIES Balloon Lollipop sticks Toilet paper tube Hole puncher Hot glue gun Tape Straws Scissors 4 Bottle tops

STEP 6: Stick a straw through the hole and tape a balloon to the end.STEP 7: Now blow through the straw to inflate the balloon, set down the car while holding the straw closed, then let go and watch the fun!

THE SCIENCE

To start, the user inflates the balloon with air. The balloon acts as a temporary energy storage device, storing potential energy in the form of the compressed air inside.

When the user releases the air, the compressed air inside the balloon starts to escape rapidly through the opening. This escaping air creates an outward flow in one direction according to Newton's third law. For every action of air escaping, there is an equal and opposite reaction, which propels the car forward, making the car go!.

Balloon Car Observations Use this worksheet to process and evaluate your work.	
Did your balloon car work? Dic	d it need any adjustments?
RECORD Test and measure how far your car will go!	
TRIAL 1	DISTANCE IN INCHES
TRIAL 2	DISTANCE IN INCHES
TRIAL 3	DISTANCE IN INCHES
If your car didn't work, what can you try next time?	
Test out different shaped ballow with the wheels!	oons, change the angle of the straw, play around





























