



## THE PLACE WHERE AWESOME LIVES

## **Marker Cars**

Explore force and motion and make your unique mark with toy cars!

# **Big Idea**

Cars help us move from one place to another add a marker to see how pushing and rolling affects the marks you make.

### **Standards**

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1.A Demonstrate understanding though	Children will follow simple one and two
age-appropriate responses.	step directions to complete the Marker
	Car Project.
7.A Measure objects and quantities using	Children will compare and categorize
direct comparison methods and non-	which car is the longest, shortest, and
standard units	makes a continuous line with the marker.
11.A Develop beginning skills in the use	Children will begin to create new ideas,
of science and engineering practices,	observations and investigate toy cars
such as observing, asking questions,	with markers taped to the back.
solving problems, and drawing	
conclusions.	
26.A Understand processes, traditional	Children will use colored markers in a
tools, and modern technologies used in	new way by attaching it to the back of
the arts.	the car.

#### Materials

- Toy cars- best is small matchbox
- Markers

- Masking tape
- Paper or cardboard

## Setup

Find a clean floor space to work. Tape the markers, with the caps off, on to the bumper or back of the toy cars.

### **Directions**

- 1. Begin by setting up the cars and placing on the paper. Think of this like setting up a racetrack and drawing a whole new way.
- 2. Create different kind of lines by driving the car. For example, create straight lines, wriggly lines, lines that start and stop. Then create different shapes such as circle, rectangle, and triangle. Next, explore overlapping lines where one line is on top of another. Which toy cars are the longest, shortest? Can you tell me about the lines the cars make?
- 3. Have fun drawing with cars!





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# *Investigation Questions:*

- Q: What other designs can you make with your cars?
- Q. Which can you tell me what type of car is the longest, shortest, and makes the continuous line?
- Q: What do you think would happen if we put the paper on a ramp with the marker car?
- *Q: Is there one car that draws a bright line? Can you tell me why?*
- Q: What else can you tell me about the Marker Car?