

JR-ENGINEERS

FAN POWERED CAR

Get kids thinking about how things go by setting up this super simple fan powered car!

INSTRUCTIONS

STEP 1: Cut off two lollipops from their 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 back of the car for the straw/sail.

STEP 6: Cut out a rectangular 'sail' from card stock and punch two holes in it.

STEP 7: Stick the straw through the holes in the sail and then into the tube.

STEP 8: Now place your car in front of a fan and enjoy the fun!

SUPPLIES

Lollipop sticks
Toilet paper tube
Hole puncher
Hot glue gun
Straw
Scissors
4 Bottle tops
Card stock
Fan

WHAT'S HAPPENING?

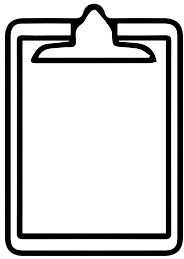
The wheels of the cardboard car need to be lightweight and free-rolling to minimize friction and allow for smooth movement.

As air in motion applies pressure to your car's sail, it imparts a force onto the sail, propelling the car forward.

Fan Powered Car Observations

Use this worksheet to process and evaluate your work.

Did your balloon car work? Did 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 shapes and sizes for sails.



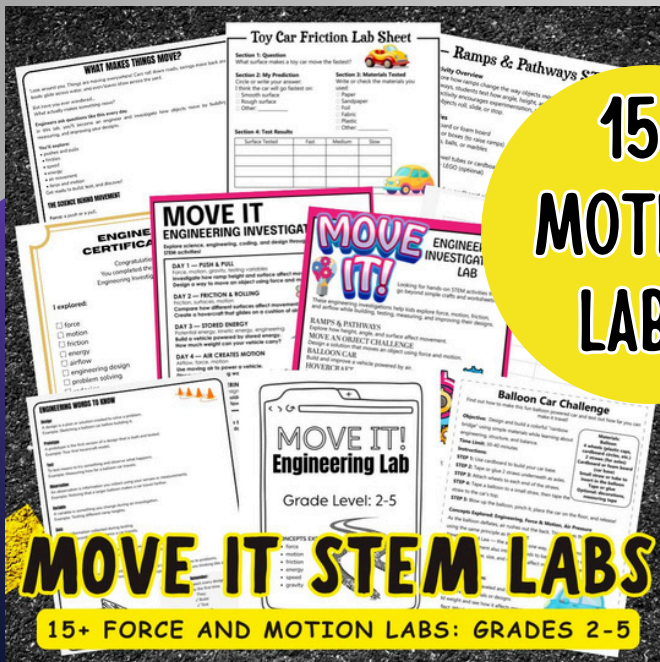
NEXT STEPS

LITTLE BINS[™] LITTLE HANDS

IF YOU LIKED THIS ACTIVITY, TRY THESE PROJECTS:



- ENGINEERING ACTIVITIES
- OUTDOOR STEM LABS
- FORCE AND MOTION WORKSHEETS, K-2



TURN THIS INTO A
FORCE AND MOTION UNIT!

MOVE IT STEM LABS



**EVERY PACK
EVERY PRINTABLE**
Get the ALL-
ACCESS PASS!



ALL-ACCESS science & Art Pass

FOUNDATIONS OF SCIENCE: MONTH 2

Theme: Exploring Fall Science From Weather to Wildlife

Audience: Grades 4-6 Science Teachers or Classroom Teachers

Purpose: This month we'll explore how the changing seasons affect weather, plants, animals, and even the ground beneath our feet.

WEEK 1: Weather & Seasons

Theme: How does weather change, and why do we see seasons?

WEEK 2: Plants in Fall

Theme: What happens to plants as seasons change?

WEEK 3: Animals in Fall

Theme: How do animals prepare for winter?

WEEK 4: Earth & Rocks

Theme: What's under our feet? Exploring soil and rocks.

FOUNDATIONS OF ART: MONTH 2

Theme: Integrates the 7 elements of art with famous artist studies and process-based projects.

Audience: Grades 4-6 Art Teachers or Classroom Teachers

Purpose: Explore core concepts, explore basic materials, build sketchbook habits.

WEEK 1: Color & Space - "Pointillism Fall Trees"

Artist: Georges Seurat

WEEK 2: Shape & Value - "Castle and Sun Collage"

Artist: Paul Klee

WEEK 3: Repetition & Form - "Polka Dot Pumpkins"

Artist: Yayoi Kusama

WEEK 4: Storytelling & Texture - "Story Quilts"

Artist: Faith Ringgold

✓ Never Expires!

✓ Monthly Science & Art Lessons!

✓ All Our Packs & Printables!

Little Bins for Little Hands helps make hands-on learning easy for families and educators by providing simple, engaging science experiments, STEM activities, art projects, and printable resources that encourage curiosity, creativity, and learning through play.