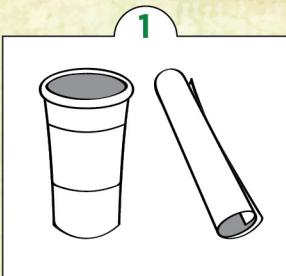


FAMILY
ENGINEERING
ACTIVITYBUILD YOUR OWN
ZIP LINE

This zip-line craft was made with poster board and binder clips.

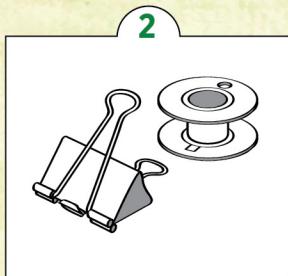
Bring home the engineering concepts we've been exploring in class as your family experiments with different materials to build the fastest zip-line car to race back to NINJAGO® City. Combine your family's ideas to build something awesome. Don't forget to trick it out with stylish decorations!

Directions



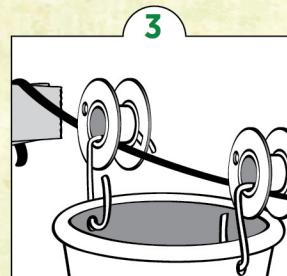
Choose your car type

A zip-line car can take many forms. For example, you can make a basket-style car out of a paper cup or a long cable car out of rolled-up poster board.



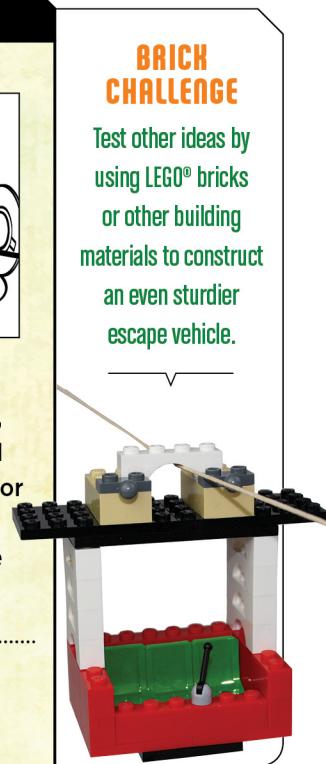
Attach a pulley

Affix a piece(s) to the car that will hang on the zip line itself and allow the car to descend. Binder clips or sewing bobbins work great!



Secure a cable

Tie smooth string (e.g., fishing line or unwaxed dental floss) to two anchor points in the room at different heights. Make sure it's nice and taut!



BRICK CHALLENGE

Test other ideas by using LEGO® bricks or other building materials to construct an even sturdier escape vehicle.

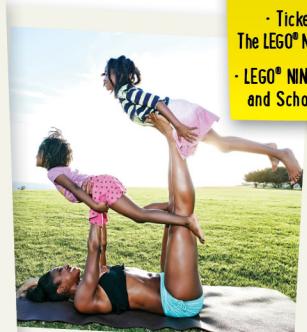


SNEAKY SCIENCE: Test out different lengths/tension of string and materials for cars. How does the angle of the zip line or the weight of the cargo also affect the speed?

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