

The Big idea: *goal or objective of activity*
STEM-Engineering

What will students learn?
Core Standard
STEM

Life Skill?
Teamwork
Cooperation
Communication
Leadership
Conflict resolution

Grade Level: third and up

Do Ahead:

Reflection Activity:
Rubber band cars
Moon Rover

Follow up:
(where do we go from here)

Try again after analysis

After School Activity Plan

Activity Title: Balloon Powered Car

Background: *(What do children or staff need to know prior to this activity?)*

Website: designsquadnation.org
Concepts of propulsion engineering

Supplies needed: *(be specific as to quantities, size, color, etc.)*

A variety of objectives for wheels (cardboard cake forms, spools
CDs etc.)

Balloons

Pipe cleaners

Dowels

Soda bottles

Cardboard, small boxes-recyclables

Equipment needed *(set per each group of 4 children)*

Scissors

tape

flat surface for testing cars

Time needed:

30 minutes

What to do:

Attach directions

Directions available from Design Squad Nation

Questions?

Questions to further discussion and spur children to explore deeper

What caused your car to move or not move?

What materials seemed to work best and what factor influenced?

Can your design be improved?