

MAKE & TAKE

Make & Take Activities involve consumable materials, so children & families take their creations home!

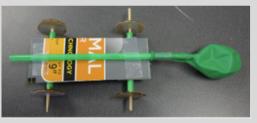


LEGO BUILD

Using random Legos, create anything imaginable, or use the prompt cards for a more complex challenge.

BALLOON POWERED CARS

Using everyday materials and a balloon, power a vehicle to glide along the floor experiment with different design elements to increase speed and distance.



CLAY CREATIONS

Explore architecture by building geodesic domes from toothpicks & modeling clay

LED FLASHLIGHTS

Experiment with creating a simple circuit LED flashlight.



Follow directions to create origami! Animals, flowers and shapes!

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COSTUME CREATIONS

Follow the directions to turn a paper bag into a vest or a cape. Then, decorate with any of the materials available.



FOIL BOATS



Using foil, create a boat that can hold weight and still float experiment with boat design and weight.

CATAPULTS

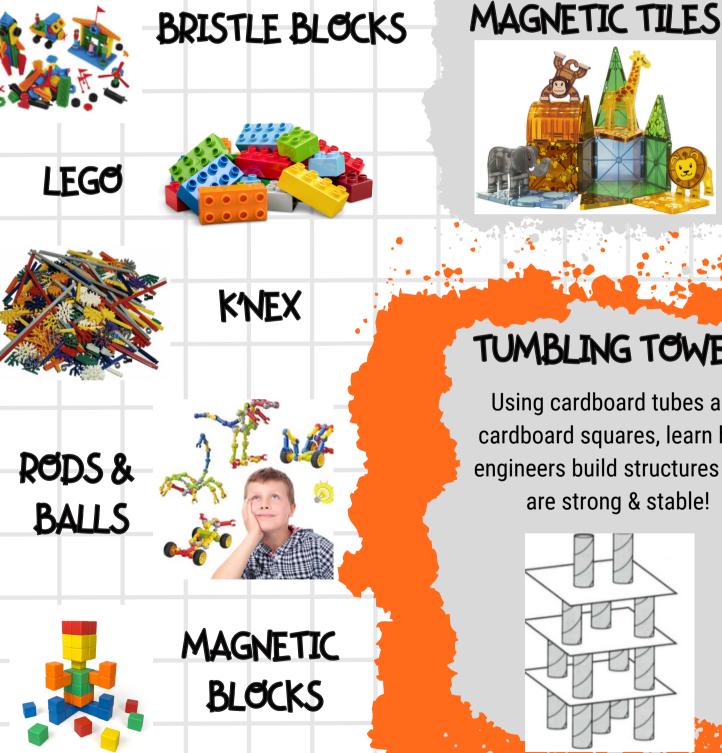
Using simple materials, build a model catapult and then improve the design for increased distance & speed.



3DOODLER

Use the 3Doodler pen to create 3D art and structures straight from your imagination.

Free Build Activities allow children & FREE families to explore open-ended building materials - using their imagination or build BUILD cards to guide them.



TUMBLING TOWER

Using cardboard tubes and cardboard squares, learn how engineers build structures that are strong & stable!

CHALLENGES

Challenge Activities provide children & families with an activity that has specific constraints & goals.

BEE BOT ROBOTS

Build a maze out of popsicle sticks and then code the robots to move through the maze.



CUP PYRAMID

Work in teams to build a cup pyramid - but with a twist! You can't use your hands!

BIRD NEST

Using only the materials provided, build a nest to hold 3 eggs (marbles).

HOUSE OF CARDS

Discover building with just playing cards – uncover strengths in different card configurations.

STEM CAREERS

STEM Careers Activities allow children & families to learn about STEM Careers through exploration!

BOXING BEANS

Experiment with package design to determine the most efficient way to hold a product. STEM Career: Advanced Manufacturing



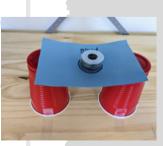


DOMINO DIVING BOARD

Make a cantilever and gain a better understanding of how engineers help us to "hang out" safely.

STEM Career: Achitecture

GLUE IS THE CLUE



Demonstrate how composite materials are used in engineering to make something stronger. STEM Career: Engineering

SNAP CIRCUITS

Experiment with Snap Circuits eletrical components. Kit includes directions for projects. STEM Career: Electrical

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SOLID GROUND

Demonstrate how different Earth materials hold up to pressure. **STEM Career: Geology**

THRILL SEEKERS



Work together to move marbles through plastic tubing, much like a rollercoaster. STEM Career: Aerodynamics

LET'S COMMUNICATE

One partner builds a simple structure, then provides verbal directions for another person to build the same structure. **Computational Thinking**



STEMSTEM Fun Activities are quick & easyEXPERIMENTAL STEMexperiments for children & families to
enjoy together!

ANCIENT ARCHITECTURE



Follow Lego-like instructions to build arches and domes. Historical information provided, too!

INSPIRED BY NATURE

Match human-made contraptions with those that match nature! Discover how nature inspires engineers & inventors!

MAKE IT LOUD

Experiment with how different materials influence sound, using a cardboard tube.