

KOHL'S
Design
It! Lab

QUARTER THREE

STEM SUMMER

step 1
IDEATION

step 2
GRAB YOUR MATERIALS

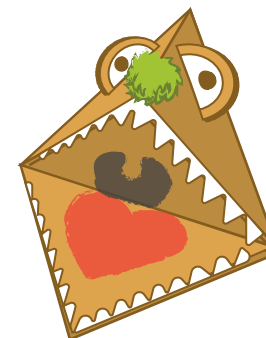
step 3
MAKE A PROTOTYPE!

VISIT DISCOVERYWORLD.ORG FOR MORE INFO
USE [#KOHLSDSIGNITLAB](https://twitter.com/KOHLSDSIGNITLAB) TO SHARE YOUR PROJECTS!

SEPTEMBER: CARDBOARD KINGDOM

AGES +7 HOT GLUE
15-20 MINUTES

Explore the world of cardboard creativity.
Experiment with this versatile material and
learn new ways to innovate and craft with
cardboard and cardboard tools.



WHAT IS CARDBOARD?

Cardboard is a paper-based material
primarily used to cushion and package
products. On average, the world produces
around 500 million tons of paper and
cardboard per year. That's a lot of cardboard!

CARDBOARD TYPES

Cardboard is made up of layered paper. When the paper is accorian folded
and sandwiched between paper layers, it's called fluting. Depending on
which way your fluting runs, it will make it easier or harder to fold and cut.

NON
CORRUGATED BOARD

SINGLE
FACE BOARD

SINGLE
WALL BOARD

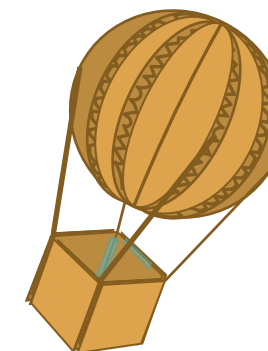
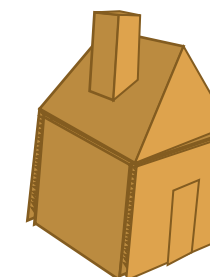
DOUBLE
WALL BOARD

TRIPLE
WALL BOARD



CUTTING CARDBOARD

Depending on the thickness of your cardboard, you may
find it easier or harder to work with. It's important to know
which tools to use. Thin cardboard should be easy to cut
through with scissors. The thicker the cardboard, the
more advanced of a tool you will need to use.



FOLDING CARDBOARD

Cardboard is a very bendy material. It has soft,
natural paper fibers, that allow for it to flex rather
than break. By pre-bending your cardboard and
following the grain of your fluting you can make
rounded cardboard shapes.

QUESTIONS TO ASK YOURSELF

- What type of cardboard am I using?
- Which tools will help me use this cardboard?
- Which way is my fluting running? How can I use this knowledge to my advantage?
- What products do I use at home that have cardboard packaging?

