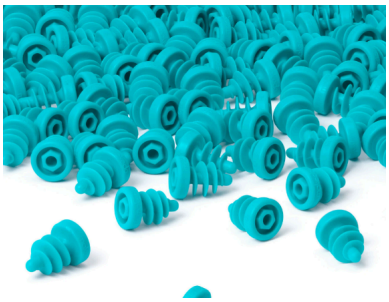
MakeDo Cardboard Construction Kit Contents

Included in this Kit:

- 640 Scru Pieces (varying sizes)



- 14 Scrudriver Tools



- 14 Fold-Roller Tools



- 28 Saw Tools



- 24 Mini Tools



MakeDo Cardboard Construction Kit Instructions

Reusable tools work with cardboard to become the most open-ended toy construction system ever! Designed for all ages and all skill levels, you can make anything imaginable of any size from a flow to a fort, a mask to a maze.

How to use each tool:

- **Scru** - Small Scrus can connect up to three layers of cardboard, and large Scrus can connect up to six layers of cardboard. Use these as you would with any standard screw

- Scrudriver - Used as a standard screwdriver with the provided Scrus. The Scrudriver clips into the top of the Scru to allow a user to twist it into the cardboard. The pointed end of the Scrudriver is a hole punch that can be used to make a pilot hole for the Scru.

- Mini Tools - Help create and maintain parallel lines. They can be used to punch pilot holes and as a mini Scrudriver

- Saw Tools - Used as a standard saw tool, drawn back and forth across the desired surface. This is the tool that will be used to cut the cardboard. The fine teeth are better for thinner material, while the large teeth quickly cut through thicker cardboard. It may help to punch small “pilot holes” along the line you wish to cut before cutting through to ensure that the line follows the desired path.

- Fold-Roller Tools - Can be rolled across a surface to create perforated lines (i.e. to “score” the cardboard). Allows for cardboard to be folded in neat lines.

Construction Tips

How to safely cut cardboard - Visit the link below to view a video
https://know.make.do/collections/how-to/products/how-to-safely-cut-cardboard

Key points to remember:

- The fine teeth enable greater control, and are good for use in thinner card.
- The larger teeth enable faster cutting and are good for thicker cardboard.

Here's a tip that may be handy when using the Makedo SAFE-SAW:
Punch a row of holes along the line of your cut, about 1" apart... then use the saw to "join the dots". This works well for straight and curved cuts, as well as cutouts such as holes, windows or doors.

View a video on how to create a controlled fold in cardboard:
https://know.make.do/collections/how-to/products/how-to-fold-cardboard

View videos on how to punch holes, join cardboard, and connect cardboard:
https://know.make.do/collections/how-to/products/how-to-connect-cardboard

Where Can I Find Cardboard?
Many household objects are made of cardboard and can be stored for use during these programs. Some materials may include:

- Cereal boxes
- Tissue boxes
- Toilet/paper towel rolls
- Shoe boxes
- Shipping boxes
- Coffee cup lids and sleeves

There are a variety of other cardboard objects that can be utilized as well. Just because it is not included here does not mean that it isn't usable!

Ideas - MakeDo HUB

First time using MakeDo, or just stuck on ideas? MakeDo HUB is your source for helpful videos, step-by-step projects, and inspiration from MakeDo creators around the world. You can limit your searches to the amount of Scrus you have available, as well as the skill level and size of creation you want to make.

https://know.make.do/

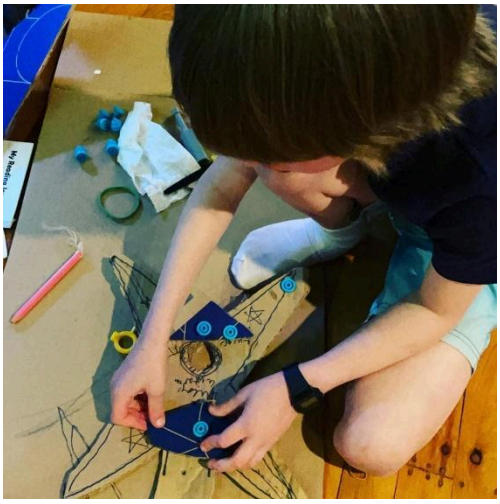


Cleaning up the Kit - Please keep two things in mind when cleaning up the kits.

- We need to keep the kit components all together. Libraries/patrons may not be able to keep creations if they require Scru pieces to hold them together. All of the included items must be returned.
- If creations are small enough to fit in the box, they can be put in the bin intact. Otherwise, they may need to be dismantled to ensure all of the items are returned properly.
- Cardboard can be reused! Make sure to keep any pieces in usable condition with the kit. Otherwise, please recycle.

Program Ideas



- Holiday creations: Have patrons create the decorations for an upcoming holiday or season change, then display the finished products for the month at the library
- Family night: Have children and caregivers work together to free-build with whatever cardboard you have on hand
- Fort and movie night: Have patrons create a cardboard fort, then make some popcorn, get a movie started, and enjoy the evening in your very own fort!
- Bridge-building competition: Who can build the sturdiest bridge? Have teams or individuals compete to create a bridge that can hold a certain amount of weight (a bin, a stack of books, a few toy cars, etc). The winner receives a prize!
- Upcycling program: Have a MakeDo demonstration as part of a program about upcycling materials. You might also include ways to upcycle old clothing, containers, damaged books, etc.