



START



WITH




Maker Education Initiative

EVERY CHILD A MAKER

Do you like to try new things, have fun and share your ideas with friends? If so, you can be a maker! What's a maker? A maker is someone who creates things! Whether you like art, crafts, robots or computers, you can be a maker of anything! Just use the creative process!

WHERE DO YOU BEGIN?

Start by meeting other makers. Makers are everywhere! Chances are there are makers in your neighborhood. You can find makers at events, festivals and fairs, at museums, and libraries, in clubs and youth groups, and even right at home through friends and family!



REMEMBER
THE #1 RULE
OF MAKING:

There are no rules!
Have fun and be creative.

Want to get making right away? All you need is your own imagination and some basic supplies. Starting is simple with these fun activities:

CARDBOARD FURNITURE CREATIONS

Challenge:

Combine your inner artist with your builder brain to make Cardboard Furniture Creations! Try using materials in new ways and create a style that's all your own!

Supplies Needed:

- Pencil and Paper (to jot ideas down)
- Cardboard (gather things like paper towel tubes, milk cartons, etc. for small pieces)
- Colored Duct Tape (10-12 feet per furniture piece)
- Fun Items for Decorating (paint, glitter, confetti, wrapping paper, colored markers, fabric, ribbon, piping, etc.)
- Large Scissors
- Tape Measure

Directions:

1. Explore the furniture in your home or school to discover how it's built and how it works. Inspect it from all angles. What does it look like? How does it hold weight? Notice the use of squares, circles, rectangles, triangles, etc.
2. Create your own designs. Sketch out ideas and write down notes. Play with different materials to get more ideas. Decide whether you want to make a table, chair, desk, couch, or something completely new! Experiment with how different materials and shapes hold weight and affect your design.
3. Organize your supplies and clear a workspace—you need plenty of space to create!
4. Build your furniture, testing it out along the way
5. Kick back and enjoy your stylish new furniture. Take photos and share with friends!

TIPS:

- Create a strong foundation by adding extra layers or taping materials together.
- Add stability by sealing edges together and overlapping materials.
- Add cup holders, footrests and other fun items to personalize your piece.

REMEMBER:

MEASURE TWICE AND CUT ONCE! BE SURE OF YOUR MEASUREMENTS BEFORE CUTTING YOUR CARDBOARD OR OTHER MATERIALS. ONCE YOU CUT, YOU CAN'T GO BACK.



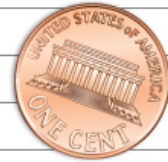
AERODYNAMIC GLIDERS

Challenge:

Design and build an Aerodynamic Glider. First make a prototype from paper, then use cardboard and weights to create your Glider extraordinaire!

Supplies Needed:

- Pencil and Paper (to jot down ideas)
- Cardboard (recycled cereal boxes work well)
- Recycled paper or magazines
- Tape Measure
- Large Scissors
- Masking Tape
- For weight, gather small items like marbles, pebbles, paper clips, washers, or coins
- For decoration, gather items like ribbon, paint, colored tape, fabric, markers, and foil



Directions:

1. Start by making paper airplanes with your recycled or magazine paper. Experiment with different folds and different angles. Fly and fly again, taking note of how different shapes work.
2. Get ready to make gliders with cardboard using what you've learned from your paper airplanes. First, ask yourself what real airplanes and other aircraft look like. What shape are the wings? Where are the wings and tail located? What does the nose and body look like?
3. Sketch out some ideas and play with your materials for inspiration.
4. Build your glider. Then, change it and rebuild it. And rebuild it again!
5. Fly away! Note how changing materials, placement, weight and angles change the flight of your glider.

CONGRATULATIONS! YOU'VE GOT WHAT IT TAKES TO MAKE!

Make what you like and follow your interests.
Being a maker can take you far!

TIPS:

- Change only one thing at a time before testing again.
- Think about energy efficiency and aerodynamics. What are the shapes of aircraft you see flying around? Are some faster than others? How is an airplane more or less energy efficient than a hot air balloon?



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