

# Flip-Chip Algebra

## Making a Basic Kit

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### Introduction

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This handout shows you how to construct a Flip-Chip Basic Kit.

The best material for a kit is matte board used for framing. The material must be stiff, thick enough to lay flat, and colored differently on each side. Thin cardboard or posterboard is not suitable.

Matte board can be cut with a knife or a paper cutter. Take care to make pieces as accurate as possible

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### Sample Layout

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There are three types of pieces:

- 1: (small square)
- $x^2$ : (large square)
- x: (rectangle)

The side of the small square is shown as 1". The large square is  $5\frac{1}{2}$ " on each side. The x rectangle is 1" by  $5\frac{1}{2}$ ". The larger dimension can be something else, but it is a good idea to choose a dimension that is not a multiple of the small square; this is to avoid the appearance that the x dimension is always some number of units.

The diagram below shows you how to cut one kit out of a 16" by 20" piece of matte board.

