

# FutureMaker Design Project Specifications Sheet

*Materials: 30 Index Cards, 1 Roll of Tape, 1 Ruler, 1 Pair of Scissors*

Congratulations! You and have created a new architectural engineering company that has been contracted by a customer to design a new house! For the customer to accept your work, you must make a model of the house that meets the following list of requirements. If your design doesn't meet the requirements, the model will not be accepted by your customer! Your customer has also included a short list of personal preferences that would be nice to include in your house. The customer also expects to see the completed prototype model in about **30 minutes, so work fast!**

## Design Criteria (Required)

- Enclosed on all sides – at least 4 walls, a floor, and a roof
- Sturdy design – Can support the roll of tape being dropped onto the roof from 1 inch away without damage
- Floor must be at least 5 by 5 inches in area
- Height must be at least 3 inches
- The house must be removable from the surface (i.e. not taped to the table)
- The doorway must be 3 inches tall by 2 inches wide
- At least one exterior doorway
- At least one window
- Can use **no more than 30 index cards**

## Customer's Personal Preferences (Optional)

The Customer Prefers...

- houses with an angled roof
- multiple exterior doorways
- a 2 inch by 4 inch or larger driveway on the side of the house

## **Tips for Successful Designing!**

- If you're unsure about how to design your house, re-read the Customer Requirements.
- Plan before you start working. Spend time planning your design before beginning to build anything.
- Don't be afraid to make improvements to your design, just make sure you do it within the given time!
- Your tools can be your friend. Measure out distances to make sure you're within the customer's required sizes!