

DETAILED ASSEMBLY INSTRUCTIONS

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MODEL SPECIFICATIONS

Design	Multi-Layered PDF Single-Layered PDF
Dimensions Length Width Height	7.5" 6.6" including stairs 9.2" w/chimney: 10.5"
Pages	11 (ready-to-print)
Quality	300dpi
Scale	28mm-30mm
Paper Size	US Letter 8.5" X 11" or A4 (210mm x 297mm)

REDUCING THE SCALE

Turn off any 'fit to page' options when printing.

Scale	%
28mm	95%
25mm	84%
20mm	65%
18mm (HO)	60%
15mm	50%
12mm	40%
10mm (N)	34%
8mm	27%
(Z)	23%
6mm	20%

TOOLS REQUIRED

Cutting mat Metal ruler Hobby knife Fine-line black marker Glue, such as Low moisture tacky glue Scrapbooking glue Glue stick

Optional Items

Excess card stock Foamcore Pencil Spray glue Toothpicks

Multi-Layered PDFs_

This product contains PDF files with multiple layers that you can make visible or invisible. When you open a file, you'll see the default design. To make changes, open the Layers menu and expand the Layers Palette to reveal the selection of layers. Some of the layers will be visible; others will be invisible. Click on the 'eye' icon to change a layer's visibility. Choose your surface textures and add or remove external features. When you get the design you want, simply print it out.

Modeling Tips

Throughout this document you will see lots of Modeling Tips specifically related to this model kit. For more details on general paper modeling, please review the Paper Modeling Guide, found at DavesGames.Net.

Paper Recommendations

Regardless if you're using inkjet or laserjet color copies, the media (paper) you use will make a big difference. Therefore, as a recommendation for best results, please consider each of the following:

Inkjet, laserjet or multipurpose paper, 96 or 98 bright, 24 lb.

Cardstock or index, 110 lb.

Photo paper, matte finish

Instructions $\, \mathbb{C} \,$ 2011 Jerry Jensen and David Graffam

Assembly Instructions

Model Building Terminology

These detailed instructions take into account that the model builder understands the terms scoring, edging, dry fitting, etc. For details on these and other paper modeling techniques, please refer to the Paper Modeling Guide PDF available at DavesGames.Net.

Pre-Stage Modeling Tips

If you are printing the model on regular paper, consider using a spray glue to carefully apply each printed sheet to a piece of card stock. This adds thickness and durability to the model.

Preparation

Before building the model, make sure all the tools needed are readily available.



LOWER WALLS

Score the fold lines and cut out each of the lower walls as shown.

Designer's Note: The final release of this product has 2 fold out tabs that support the foyer roof both on the north and west walls. Your model will look slightly different than the one pictured here. Fold the glue tabs as necessary.



Modeling Tip: For straighter folds, work on the flat surface of the cutting mat and use the ruler. Once the section is folded, remove the metal ruler and use your thumb to crease the fold. This technique works great on all aspects of the model.



Use a fine-line black permanent marker to edge the sides of the walls.



Start with one corner of the building and apply glue to the glue tab.



Align the wall sections and glue the two pieces together.



Modeling Tip: For stronger reinforced walls, use a smaller second piece of card stock to glue to the back of each wall section. The combination of spray glue and added card stock will give the model even a thicker and more durable feel.

Continue gluing each wall section to complete the main walls. Add the reinforcement pieces to the inside walls if desired.



THE FOYER

Score and cut out both the upper and lower foyer sections as shown.



Start with the lower section first, fold the glue tabs and wall sections. Edge the corners as needed before gluing one side to the corresponding wall.



Modeling Tip: It is good common practice to dry fit each section of the model first to see how well they fit together before gluing, making any adjustments as needed.

Glue the other side of the foyer to the lower wall.



With the upper section of the foyer, start on the same side as before and glue the tab of the foyer wall as well as the corresponding glue tab on top of the lower foyer as shown.

Modeling Tip: Be sure the overhang of the upper foyer is the same width along the glued wall.

Glue the front section followed by the other side. Keep the overhang the same width when gluing the upper foyer to the lower section.







Score and cut out the foyer roof.



Fold the overhang tabs over and glue to the bottom of the roof.



Glue the foyer roof to the top of the foyer and the fold out glue tabs both on the north and west walls for support (not shown).



The foyer roof is naturally slanted back toward the building.



UPPER LEVEL WALLS

Score and cut out the upper level walls.

Modeling Tip: Cut the bottom glue tabs to a 45 degree angle. The walls will fit more evenly on the upper level floor. You may also want to reinforce these walls with a second sheet of cardstock as noted earlier.



Fold the glue tabs and edge the sides using a black marker.

Start with two wall sections and glue together.



Continue gluing each of the upper wall sections until the top section is complete, which should look like this:



UPPER LEVEL FLOOR

Cut out the upper level floor. Edge the sides with a black marker.

Turn the piece over and use the black marker along the edges. This will hide any white lines in case the upper walls don't align perfectly to the floor.

Glue the floor to the Upper Level Walls.



Modeling Tip: To attach the floor to the upper walls more easily, apply spray glue to the un-printed side of the floor. Be sure to first notate the orientation of the walls to the floor. (The south wall is the easiest.) Then carefully align the floor piece at the corner of the upper floor walls, working from corner to corner. Once all the corners are aligned, carefully flatten down the sides.





Dry fit the upper and lower walls to see how they fit together. Apply glue to the top glue tabs of the lower walls, carefully align and attach the upper and lower building sections together.

Modeling Tip: Make sure the overhang of the upper floor is the same width around the building.



MAIN DORMERS

Score and cut out both the lower and upper wall dormers.



Fold along the glue tabs and wall sections and edge the sides where needed.

Start with the lower wall dormer and glue it together before gluing it to the lower south wall as shown.



Modeling Tip: Make sure that the support beam glue circles are aligned at the bottom.



Fold the upper dormer and edge with a black marker where needed. Align with the lower dormer and the upper south wall and glue in place.



Modeling Tip: There should be a wide enough gap at the top of the dormer for the roof piece.

Score and cut out the upper dormer roof. Fold the overhang tabs over and glue to the underside.



Apply glue to the upper dormer glue tab as well as the roof tab and carefully insert the roof tab and glue the roof to the upper dormer section.



SUPPORT BEAMS

Score and cut out the support beams.



Modeling Tip: Scoring the folding lines before cutting out the support beams will make these much easier to put together.

Modeling Tip: For a straighter look to the support beams, use the metal ruler as a guide and carefully fold each section up by using the hobby blade.



Use a black marker and edge the sides before gluing.



Modeling Tip: To glue smaller areas, use a toothpick or a pointy bit of scrap cardstock.



When completed, the support beams should look like this:



Apply a small amount of glue to each end and align the support beam to the dormer and south wall using the white dots as your guide.









THE ROOF

Score and cut out the two roof sections.



Fold the wood-textured tabs, edge with a black marker and glue. Line up the roof sections and glue together.



Modeling Tip: You may also want to reinforce the roof sections with an extra piece of card stock like the walls.

Apply glue to the glue tabs and carefully attach the roof section. Be sure the corners of the tabs are well glued to prevent the roof from peeling up.



ROOF DORMER

Score and cut out the dormer and roof sections.



Starting with the roof, fold and edge the sides with a black marker.

Glue the overhang tabs to the underside of the roof.



Modeling Tip: Again, for straighter edges, use the metal ruler to fold the tabs and then use your thumb to crease the folds.

Fold and edge the dormer piece as shown.





Modeling Tip: To keep the long skinny dormers the same width, first measure the front of the dormer.



Glue the bottom tabs together keeping to the same measurement as the front of the dormer.



Align the dormer and glue to the main roof.

Add the dormer roof.



Use the following image to align the adjacent

dormers, keeping them even.



MAIN CHIMNEY

Score and cut out each of the chimney sections.



Fold and edge the sides with a black marker. Glue the main chimney piece together first.



Glue the chimney top.



Fold and edge the small chimney stacks with a black marker.



Modeling Tip: With these smaller pieces you will want to use the metal ruler and the hobby knife to fold up the sections as before with the dormer support beams.

Align and glue the chimney stacks as shown.



Glue the main chimney to the roof.

FOYER CHIMNEY

As with the main chimney, score and cut out each of the chimney sections.



Assemble as with the main chimney.





Modeling Tip: With smaller sections, use a pen or similar object to help glue down the inside glue tab flat.

Glue the foyer chimney to the foyer roof as shown.



BALCONY, PART 1

Score and cut out the balcony platform.



Modeling Tip: To add thickness to the inside of the platform, please review the Adding Thickness to Models section of the Dave Graffam Paper Modeling Guide.

Fold the glue tabs and edge the sides with a black marker. Glue and complete each glue tab one at a time starting with the long tab first, followed by the sides.



Do not glue the balcony to the building just yet.

BALCONY RAILING

Score the center line and carefully cut out the balcony railings.

Modeling Tip: Before completely cutting out each railing, use the metal ruler to fold one side for easier gluing later.



Edge the sides with a black marker. Edging the underside will hide any potential white lines when gluing the railing together.

Fold and glue the railing together. *Modeling Tip:* For a straighter look of the railings, work on the hard surface of the cutting mat.

Glue each of the railings to the balcony as shown.



BALCONY SUPPORT BEAMS

Assemble these beams in the same manner as with the dormer support beams.





BALCONY, PART 2

Before gluing the balcony to the building, lay the townhouse model on its side, raised by a supporting book or similar object.



Align the balcony and glue as shown. Be sure to line up the glue dots for the support beams.



Glue the support beams using the glue dots as a guide.





THE STAIRS

Start with the railing and score the center line before cutting out. As with the balcony railing, fold before completely cutting out the railing. Edge the sides with a black marker and glue the 2 halves together.



Score and cut out each of the stairs. Edge the sides.



Modeling Tip: In working with these smaller parts, as with the support beams use the metal ruler as a guide and carefully fold each section in half by using the hobby blade.

Glue each of the stair halves together as shown.



Score and cut out each of the support beams for the stair case.



Edge each support beam with a black marker and glue together.



Cut out the stair sections as shown.



Designer's Note: The final version of this staircase has the second support beam on the back of the model moved to the top for gluing the railing. See the completed stair case images for details.

Edge each of the sections with a black marker. Turn each section over and edge the back to hide any potential white lines when gluing the pieces together.

Start with one of the inside sections and glue each of the stairs as shown.





Use a book or similar objects to add enough spacing between the stairs to glue to the other inside section of the staircase.





Take the outside section of the stairs and first glue the underside landing to the top landing, then glue each outside section to its matching inside piece of the staircase as shown.

Modeling Tip: To glue the outside pieces to the inside pieces easier try using spray glue on the outside section. Lay the inside stair section on its side with a book in between as before. Carefully attach the outside of the staircase to the inside. Turn the model over and carefully attach the other side. Glue the support beams in place.

Attach the railing to the staircase and glue the completed staircase to the Townhouse.



Congratulations! Your model is complete.



West Side



East Side





North Side



South Side

