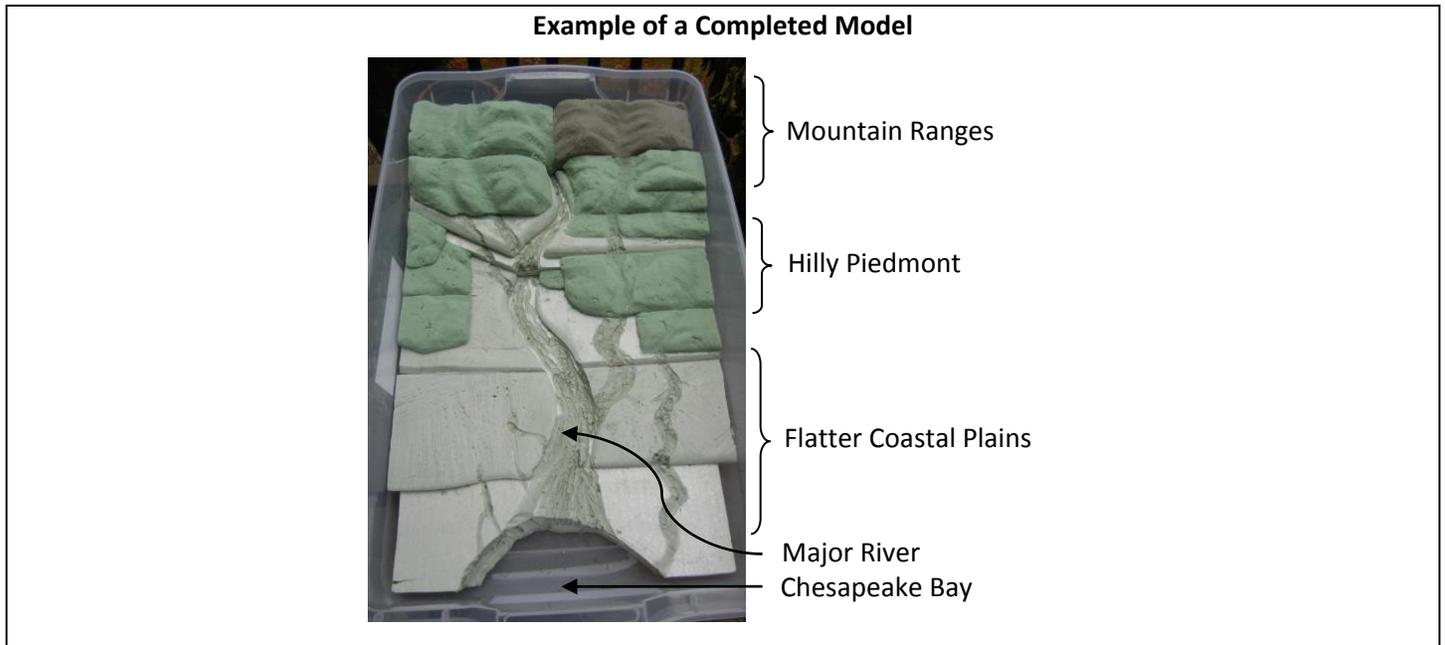
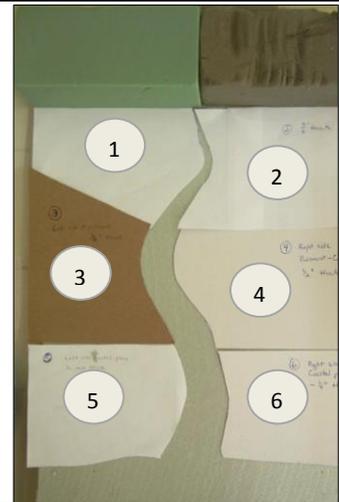


Watershed Connections

Model Instructions – Courtesy of the Interstate Commission on the Potomac River Basin & the Patuxent River Park

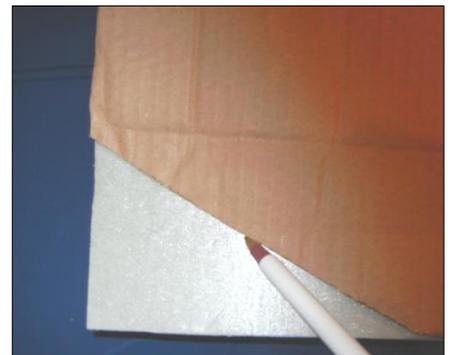


1. Cut out all your paper pattern pieces.
2. Lay pattern pieces as shown.
3. Place the 2 brown foam blocks at the top end of your Styrofoam base.



4. Mountain Base

- a. Put your mountain-base pattern on your pre-cut mountain base.
- b. Align the pattern to the left side of the base.
- c. Mark the “cut mark” on the foam base, and cut off the edge.
- d. T-pin the base in place.



Watershed Connections

Model Instructions – Courtesy of the Interstate Commission on the Potomac River Basin & the Patuxent River Park

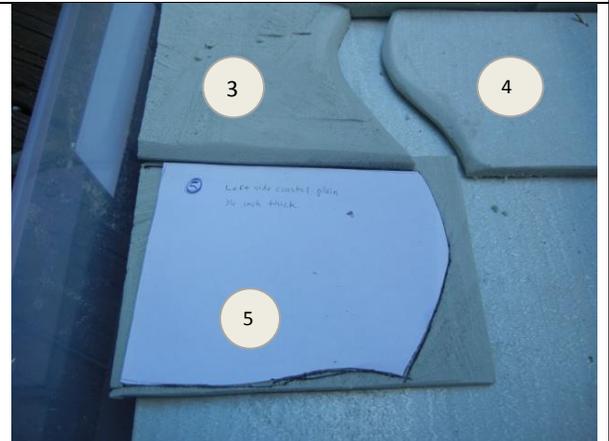
5. Mountain Blocks

- Position your brown blocks on the mountain base, wide sides up.
- Outline and cut Pieces #1 and #2. You can sand the “stream banks” on these pieces so that they slope towards the stream, but save most of your finessing for later.
- T-pin each piece in place.



6. Stream Layout

- Use patterns to make sure the stream outline “flows” from piece to piece.
- Outline and cut pieces #3 - #6.
- If you wish to have a deeper bend in your river, you can make it at this point.
- You can also sand and shape the stream banks.
- T-pin each piece in place.



7. Mountains

- Pin the mountain patterns to the *narrow* side of each brown block.
- Before cutting*, position the blocks next to each other on the model (with the pattern pieces still on them). Make sure the “valley” in your outline matches the placement of your stream. If not, adjust the pattern. Then outline it on the blocks.
- Cut or shave the blocks in small sections so as not to break your foam. The mountain should slope towards the front. At this point, you are going for a general mountain shape -- *fine tuning later*.



Watershed Connections

Model Instructions – Courtesy of the Interstate Commission on the Potomac River Basin & the Patuxent River Park

8. Lower mountain ridge

- a. Piece #1 might hang over the edge of the mountain base. You can leave it that way or cut it back, as was done for this model.
- b. Cut one of your green blocks about in half. It looks more natural, if they are not exactly the same size.



9. The Piedmont

- a. Continue to use the green foam to create the lower, hilly piedmont.
- b. You can make smooth transitions by using small pieces, as was done here, *but be careful. If you use many small pieces or very thin ones, your model will be less durable.*
- c. Your “hills” need to be big enough to hold land-use pieces.
- d. Consider making a flood plain bordering part of your large river.



10. Fine tuning: add more shape to your mountains by emphasizing the streams. Take a pencil and draw where you want tributaries on the styrofoam base. You can sand out tributaries, or we can put them in with a soldering gun (as was done in this model.)

- 11.** Draw in your “bay.”
You can cut it with your blade, or have us cut it with the soldering gun.
- 12.** Glue on pieces, making sure to align them properly.
- 13.** More fine tuning, if necessary.
- 14.** Solder the tributaries and river.



Congratulations!
Your class has a new watershed model!

