

TOPOGRAPHIC MAP OF MONTICELLO AND surrounding Area



Student Instructions for Creating 3D Mountain Model

(modified from: https://online.wr.usgs.gov/outreach/topo_instructions.html)



1. You will need 5 clear plastic containers per group.
2. The topographic map of Monticello that you will use is above. Cut it out and position it under your container.
3. Place Monticello in the center and mark the peak with an X on the container. Secure it with a small amount of tape (to be removed when you're done).
4. Looking through the bottom of the container at Monticello, use a Vis-a-vis or permanent marker (black seems to work best) to trace one contour line onto the salad tray. This is the 800 ft. contour line.
5. Take the map off in order to use it for the next container and contour line.
6. For subsequent contour lines, place the container on top of the first one, and mark the X on the container. Doing this ensures that you place the containers in the same location on the map each time you make a contour line.
7. Continue until you have a different contour line on each container. Label each tray with the elevation of the contour line on that tray. Stack them up and be amazed! **See the images below for visual reference.**
8. When you are finished, answer the questions on the student worksheet.

Topographic map of Monticello and Montalto, with Charlottesville in the upper left.



800 ft. interval on the first container.



700 ft. interval on the second container.



600 ft. contour interval



500 ft. contour interval



400 ft. contour interval



The final product



