
Instructions for building CD case groundwater models

Materials

- CD Jewel Cases, empty ones are available at office supply stores for ~50¢ each. Be sure to get the standard thickness ones, not the slim cases. You will need 1 case for every 2 students, plus some extras in case they break.

Building the models

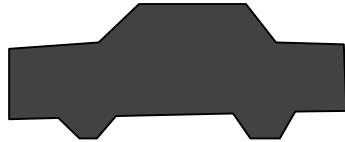
Tools needed:

- Utility Knife
- Pliers
- Electrical Tape (ACE hardware has some Extreme Weather Electrical Tape)
- Drill, Bit size of 5/32".

1. Wear Safety glasses.
2. Remove disc holder tray from Jewel Case by carefully prying it out with the utility knife.
3. Make 2 cuts with the utility knife at the top and bottom end of the box's spine.
4. Score the inside corner along the spine with the utility knife.
5. Use pair of pliers to carefully break the spine along the score line.
6. Open case. Use an 5/32" drill bit to drill a hole through one side of the box. Place that side flat on a piece of wood to prevent it from cracking. The hole should be 2" from the open spine end and centered left to right.
7. Close case. Tape edges of case as snugly as you can. Leave spine end open. Reinforce corners with two additional pieces of tape.

(If you have to re-tape a model after it has already had sand in it, you will need to make sure the case is clean and dry.)

8. Cut a car shape from the sheet of red foam rubber, about this size:



9. Cut 12 cm strips of black foam, 1 cm x 1 cm wide.