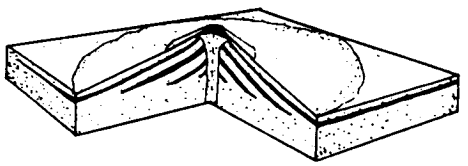
GEOBLOX

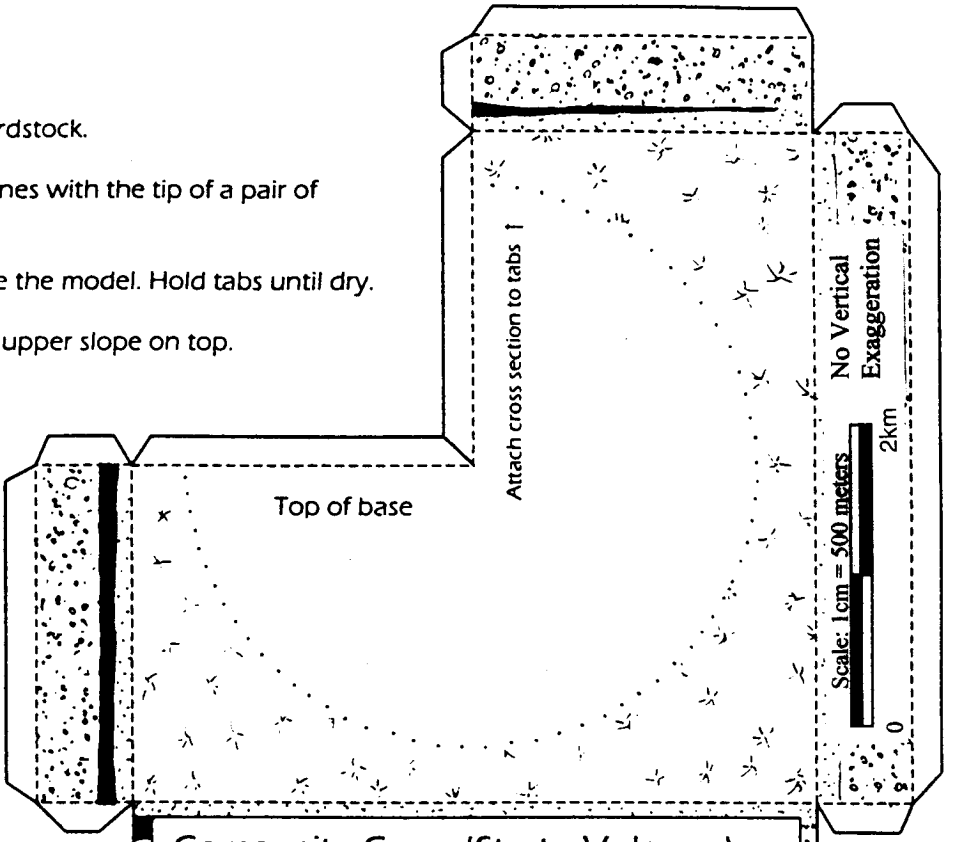
Composite Cone

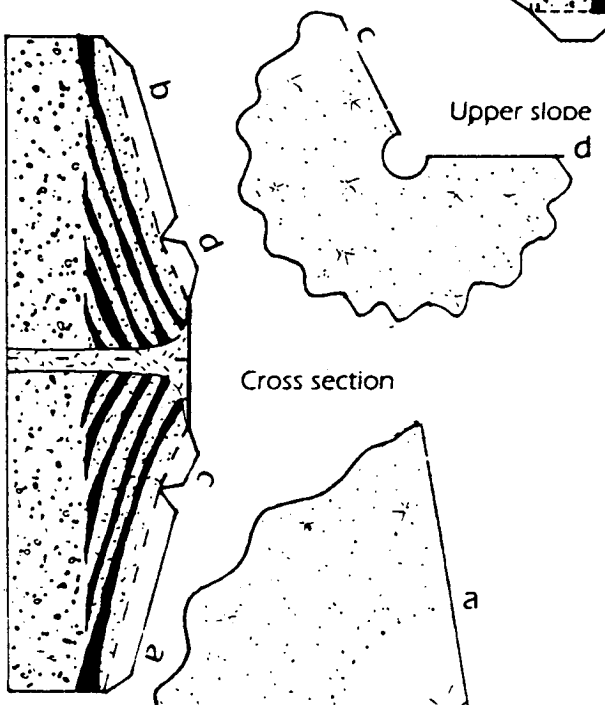
Instructions:

1. For best results, copy this pattern onto cardstock.
2. Color the model before cutting it out.
3. Cut along solid lines. Crease the dashed lines with the tip of a pair of scissors.
4. Fold the tabs a long the dashed lines.
5. Glue one tab at a time. The tabs go inside the model. Hold tabs until dry.
6. Assemble base first. Attach cross section.
7. Attach lower slope to top of base. Attach upper slope on top.

Sketch of finished model







Composite Cone (Strato Volcano)

Geology:

- Form from alternating layers of viscous andesitc lava flows and pyroclastic deposits.
- Erosion resistant slopes between 10°-25°
- Produce the most violent eruptions.
- Nuée Ardents form when hot gases mix with incandescent ash and flow down slope at 200km(125m)/hr.
- Lahars form when volcanic ash and debris are saturated by rainfall or snowmelt. These flows cause much destruction.
- Most are part of the "Ring of Fire".
- Mount Rainier and Mount Shasta in the Cascade Range

History:

- Mount Vesuvius erupted in 79$_{CE}$ burying the Roman city of Pompeii.
- In 1902, Mount Pelée produced a nuée ardent that killed 28,000 people.

Coloring Key:

- Pyroclastic layers (brown)
- Lava flows (black)
- Magma (red)
- Vegetation (green)
- Bedrock (tan)