

FIGURE 14.9

The top surface of these block diagrams, which is analogous to the Earth's surface, shows that older beds are exposed in the centers of eroded anticlines and younger beds are exposed in the centers of eroded synclines. Contact lines on the top surface are straight if folds do not plunge, but bend if they do. In plunging anticlines, the contact lines bend and point in the direction of plunge; in plunging synclines, they bend and point away from the direction of plunge. In C and D, both folds plunge into the page. The symbols on the top surface show the strike and direction of dip at various locations and the axial traces and type of folds. Note how these symbols help you visualize structure from map view alone.

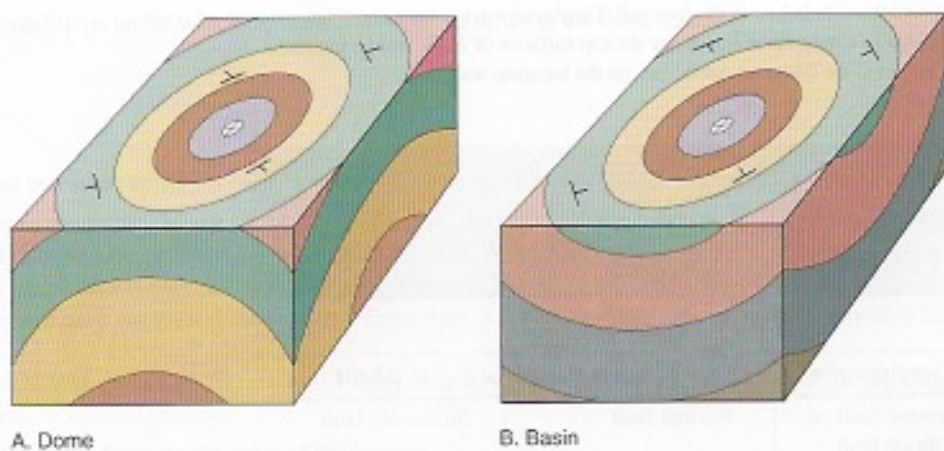


FIGURE 14.10

These block diagrams show that older beds appear in the center of an eroded dome, while younger beds appear in the center of an eroded basin. The symbols on the top surfaces show the strike and direction of dip at various locations.