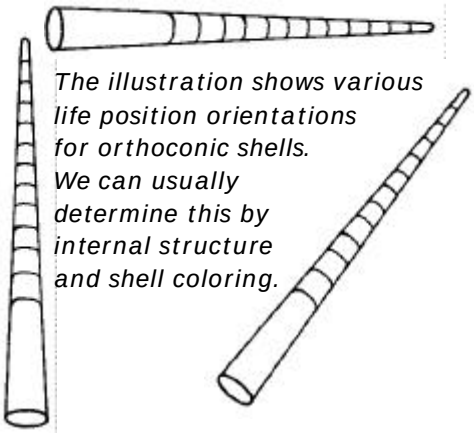
NAUTILOID CEPHALOPOD SHELL SHAPES

Orthoconic Longiconic

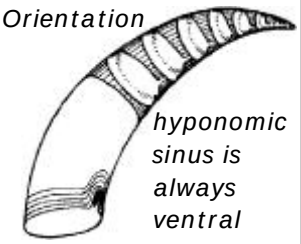


The illustration shows various life position orientations for orthoconic shells. We can usually determine this by internal structure and shell coloring.

Cyrticonic Longiconic

Living Orientations

Endogastric Orientation



hyponomic sinus is always ventral

Exogastric Orientation

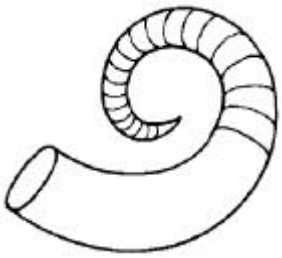
preserved shell coloration sometimes lets us determine orientation

Orthoconic Breviconic

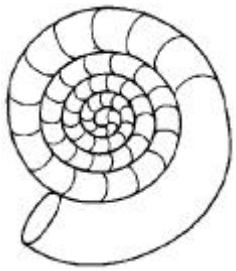
Breviconic shells come in a withering variety of shapes that these pictures and the ones to the right hardly capture.

Cyrticonic Breviconic

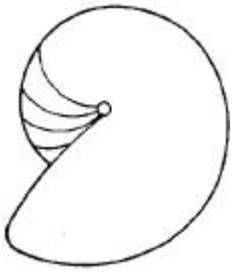
Increasing Involution of Coiling
(not an orthogenic evolutionary sequence)



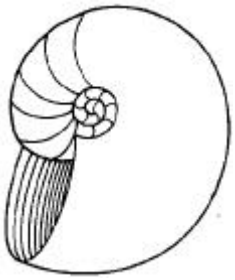
Gyro-ceracone



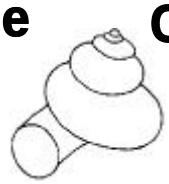
Evolute



Convolute



Involute



Trochoic

Note that these shell coiling types do not follow an evolutionary sequence. All shell types appeared at about the same time, and more than one lineage may show a coiling, as well as an uncoiling, trend.