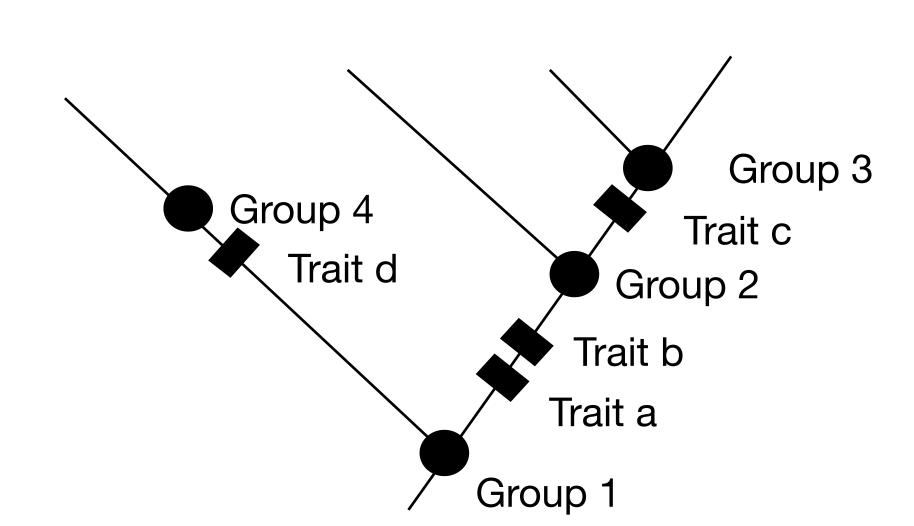
Homework 3 - Early Life

Listed are 10 monophyletic groups and 13 traits. Determine which groups have which traits. Using a separate sheet of paper, draw a cladogram with BOTH monophyletic groups and at what points on the cladogram the listed traits arise based on what we've learned in class.

Build the cladogram with groups and traits clearly labeled and submit to Catcourses as a PDF file. You can draw by hand (write legibly!) and scan, or you can use a drawing program.

Example



Diapsids Synapsids Anapsids **Gnathostomes** Vertebrata Dinosauria Archosauromorpha **A**mniota Rauisuchians **Ornithodirans** ower temporal fenestra

Perforated acetabulum Mandibular fenestra

Pillar-erect hip anatomy Vertebral column

Single temporal fenestra

Antorbital fenestra

DNA encoding genetic information No temporal feenestra

Jaws

Amniotic egg