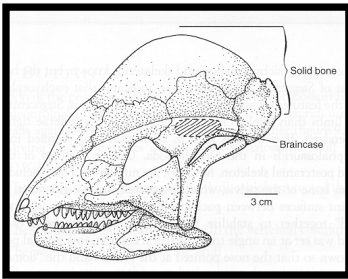


Exam 3 Review Topics (i.e. highlights)

Chapter 9

Marginocephala



Pachycephalosauria

- Bipedal
- Greatly thickened bones of the roof of skull

Two families -

Homalocephalids & pachycephalosauridae

Homalocephalids

Cretaceous

Upper Cret.

Flat, table-like skull roof

Pitted dorsally

Open supratemporal fenestrae

Sharp canine-like teeth rest veggie-like

NO POST CRANIAL SKEL.FOUND

Pachycephalosauridae

Dome-like thickening of skull

No supratemporal openings

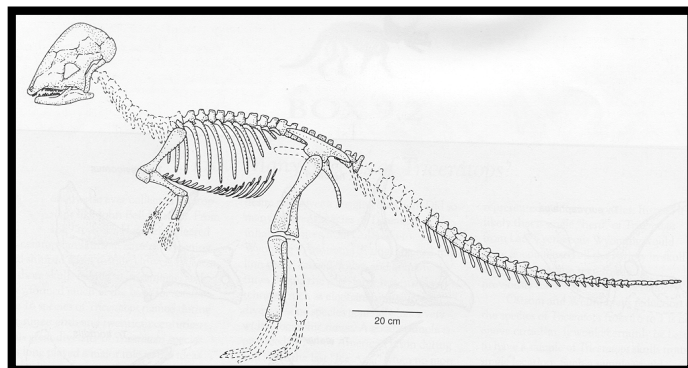
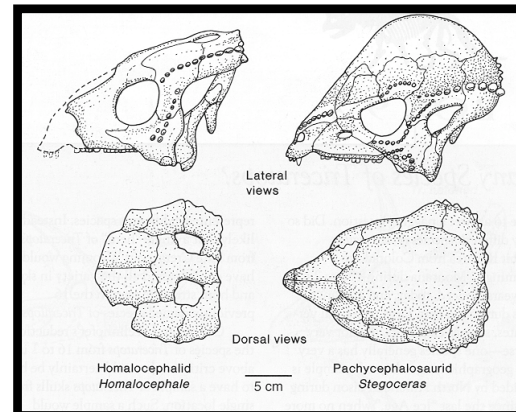
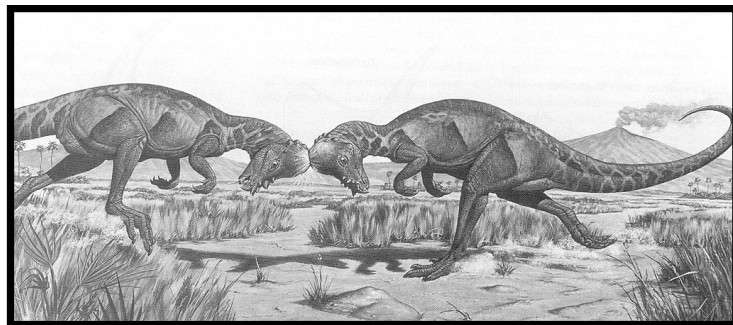
Bones thickened brain still

DOC size

Skull smooth not pitted

Cretaceous

1. Unique features:
2. Long and low ilium
3. Long tail with ossified tendons
4. Joints between vert. Ridged - locked to



stabilize back

5. Head at an angle to vert. Column

Normal posture head hung down dome forward

- Resist impacts:
- Thickening of skull - protect pea brain
- Shorten base of skull
- Inclination of skull relative to vert. Column
- Widely expanded back of skull
- Strengthening of vert. Column
- Reinforced upper lip of hip socket