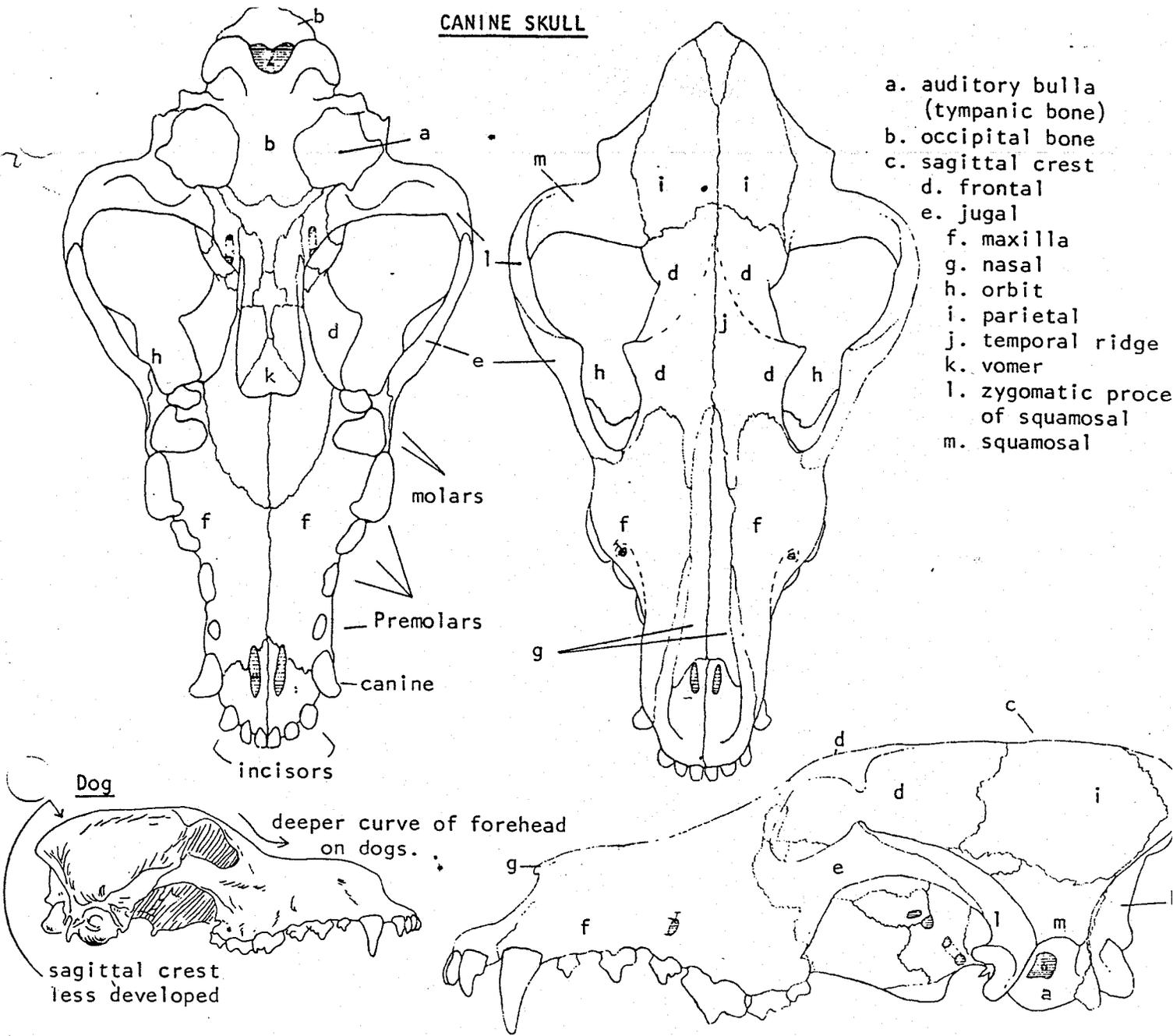
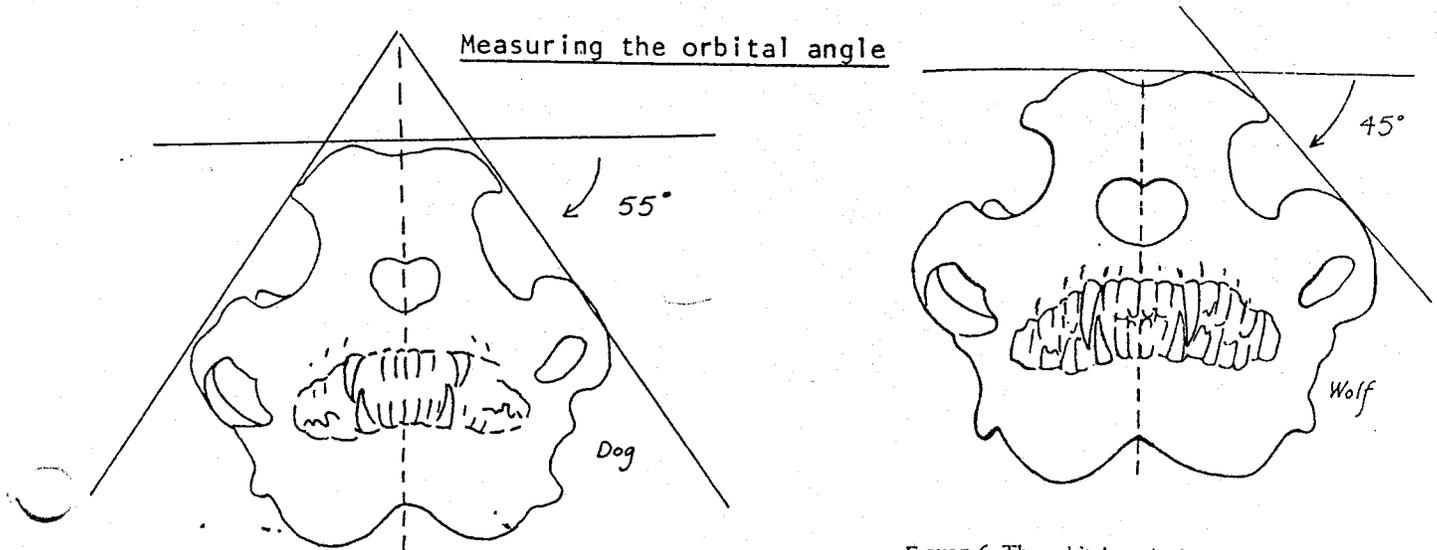


CANINE SKULL

- a. auditory bulla (tympanic bone)
- b. occipital bone
- c. sagittal crest
- d. frontal
- e. jugal
- f. maxilla
- g. nasal
- h. orbit
- i. parietal
- j. temporal ridge
- k. vomer
- l. zygomatic process of squamosal
- m. squamosal



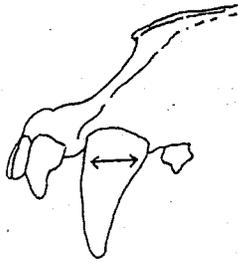
Measuring the orbital angle



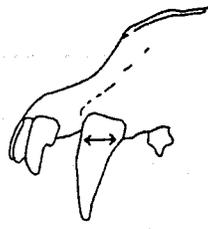
Modified from figure 6 in *The Wolf* L.D. Mech. - K.A.B.

FIGURE 6. The orbital angle. In wolves this angle measures  $40^\circ$  to  $45^\circ$ , whereas in dogs it ranges from  $53^\circ$  to  $60^\circ$ . (Modified from Iljin, 1941) - from *The Wolf*, L.D. Mech.

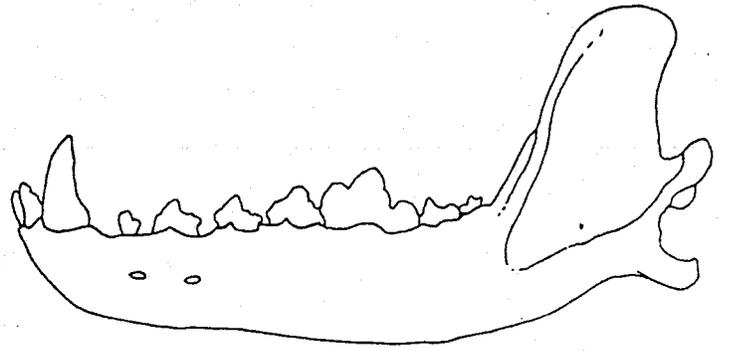
Karlyn Atkinson-Berg 1983



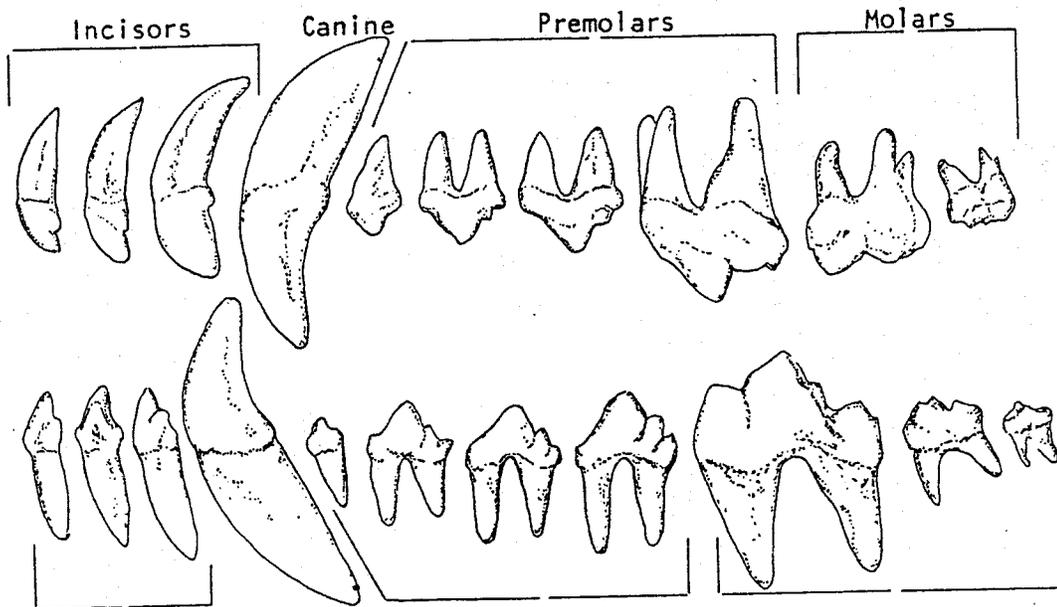
Wolf: generally greater than  $\frac{1}{2}$ " at base of Canine



Coyote: generally less than  $\frac{1}{2}$ " at base of Canine

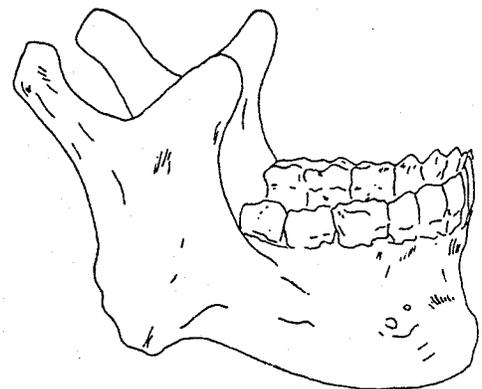
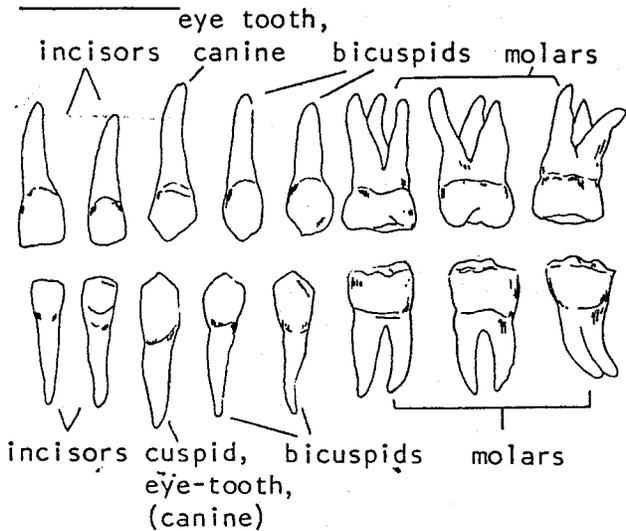


Canis mandible (lower jaw bone)  
identification of teeth below



Teeth of a Canid

Human teeth



Human mandible or lower jaw

# WOLVES & HUMANS

The Science Museum of Minnesota

## "WOLVES AND HUMANS": VOCABULARY

### SKULL AND TEETH

#### SKULL

cranium - the skull made up of two major regions, the braincase and the rostrum

braincase - the rear portion of the skull; houses and protects the brain

rostrum - the facial area of the skull, which includes the upper jaw and the bones of the nasal passage

auditory bullae - houses the middle and inner ear (see a. in diagram)

orbit - the eye socket (see h.)

temporal ridges - (j.) arise on the frontal (d.) and continue until they verge to form the sagittal crest (c.) This crest is well developed in wolves. These ridges increase the area available for the attachment of jaw muscles. The well developed crest helps increase the muscle power available to wolves.

The tooth bearing bones of the cranium are the paired premaxillae and MAXILLAE. (f.)

Several bones contribute to the ZYGOMATIC ARCH (see l, and e. and m.)

MANDIBLE - the lower jaw

Calipers - is an instrument used for taking precise measurements and is most helpful for measuring an object like a skull

#### TEETH

cuspid - a point, projection or bump on the crown of a tooth

bicuspid - a tooth having two major cusps

incisors - the forward most teeth, having a chisel like shape

canine - the elongated unicuspid, the fang or eye tooth. It has a single root

molars - the rear most teeth having several cusps and root stems