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CS 184 * Modeling the Evolution of Cognition **Bioanthropology Site Visit Worksheet**

bloantin opology Site Visit Worksheet		
SKELETONS : Examine the differences between a human and a nonhuman primate (in this case, chimp) skeleton		
- How long is a human's <u>big toe</u> ?		
- Is it longer or shorter than the human thumb?than a chimpanzee's toe? a chimpanzee's thumb		
- What differences do you see in		
- Hands.		
- Spine & Foramen Magnum.		
- Heel.		
- Toes.		
- Pelvic bone.		
- Knee.		
- Compare the relationship between the pelvis and the femur (thigh bone)		
Briefly describe a <u>cognitive</u> implication of the evolutionary changes in the		
- Shoulder		
- Hand		
- Pelvis		

$\underline{\textbf{SKULLS}}{:} \qquad \text{Compare the skulls of humans, contemporary primates, and our hominid ancestors}$		
- Which species/groups have "sagittal crests"?		
- What are they for? Why might it be that WE don't have them?		
- What is the most striking difference in the <u>teeth</u> of the hominids compared to the other primates?		
- Why might this change have taken place?		
- How does the shape of the face (especially brow, jaw, chin) change across the hominid skulls?		
- Can you detect a change in the <u>frontal pole</u> ? From which species to which?		
- What brain/skull features distinguish <i>Homo sapiens</i> from <i>Homo neanderthalensis</i>		
- Describe the size, shape & placement of the <u>hyoid bone</u> .		
- List the hominid species in the order of <u>brain/skull size</u> . (Include estimated brain size in cc's.)		

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TOOLS	Handle these hominid stone tools, and imagine how you migh	at use them out on the savannah
- List an assoc	viated species and time (in MYA), and breifly describe key feature	res of the stones, their manufacture, and use
- Oldowa	n	
- Acheuli	an	
- Mouster	ian	
- Upper F	aleolithic	
- Contem	porary	
- What is the	'Levallois Method", which species practiced it, and what might b	pe its cognitive implications ?
	ossible <u>cognitive</u> implications for each transition from one cultural of the Oldowan	e to the next
- I CHSHAC	ite to Oldowali	
- Oldowa	n to Acheulian	
- Acheuli	an to Mousterian	
- Mouster	rian to Upper Paleo	