**Skeletal Evidence Lab Reference Sheet**

**Skull**





  

Projected nose spine

Bregmatic depression

Lower nose overgrowth

 **Asian African European**

- rounded eye sockets - square eye sockets - angular eye sockets

- eye closer together - eyes further apart - eyes medium distance apart

- thin nasal opening - wide nasal opening - low nasal opening

- parabole jaw - rectangular jaw - triangular jaw

 **Pelvis**





**Other Bones**



The **sagittal suture** is at the top of the skull, dividing the left from the right side, completely closing at 32 years of age (26+ in males, 29+ in females). So if you can see through the suture, the person must be under 32 years old. The **coronal suture** runs from your temples across your skull and closes around 50 years of age. The **lambodial suture** is at the back of the skull and closes around 21-30 years of age.

|  |  |  |
| --- | --- | --- |
| **Region** | **Bone** | **Age** |
| **Arm** | Humerus head bones fused | 4-6 |
|  | Humerus head fused to shaft | 18-20 |
| **Leg** | Femur: greater trochanter appears | 4 |
|  | Less trochanter appears | 13-14 |
|  | Femur head fused to shaft | 16-18 |
|  | Condyles join shaft | 20 |
| **Shoulder** | Clavicle and sternum close | 18-24 |
| **Pelvis** | Pubis, ishium united | 7-8 |
|  | Ileum, ischium, pubic are united | 20-25 |
|  | All sacrum united | 25-30 |
| **Skull** | Lambodial suture closed | 21-30 |
|  | Sagittal suture closed | 32 |
|  | Coromal suture closed | 50 |

 

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ **Skeleton Lab Sheet**

*We have two unknown skeletons in our closet! Let’s identify their age, gender, and race.*

**Procedure:** Observe both skeletons using you reference sheet to determine the gender, age, and race of the skeletons. Write observations in the blanks provided.

1. Determine the gender of the skeletons and give 3 piece of evidence for each skeleton:

**Skeleton** **1**: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ **Skeleton 2**: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Skull: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Skull: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Eye: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Eye: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Pelvis: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Pelvis: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Determine the race of the skeletons and give 3 piece of evidence for each skeleton:

**Skeleton** **1**: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ **Skeleton 2**: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Eye: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Eye: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Nose: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Nose: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Jaw: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Jaw: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Determine the age of the skeletons and give 3 piece of evidence for each skeleton:

**Skeleton** **1**: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ **Skeleton 2**: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. For each skeleton give your final conclusions of age, gender and race.

Skeleton 1: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Skeleton 2: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. What were some bones that gave you trouble deciding the age? Explain.
2. What were some bones that gave you trouble deciding the race? Explain.
3. What were some bones that gave you trouble deciding the gender? Explain.