



# AXIAL SKELETON

## SCRANIUM

To view the Cranium:

- from the main menu
- select "Skeletal" from the top menu
- select "Skull"

Part 1		
<b>Outside Partner:</b> Have the partner in VR identify and then point to the following. Check off each one as they get them correct. If they miss one, have them finish and then begin again. Move on once they get them all correct in one try.		
Partner 1	Partner 2	Parts to Identify
		Frontal bone
		Parietal bones (2)
		Temporal bones (2)
		Occipital bone
		Sphenoid bone
		Ethmoid bone
		All correct on the same attempt? If not, try again.

Part 2		
<b>Outside Partner:</b> Rotate the skull to view it from the bottom. Have your partner point to and identify the following 2 structures and explain their functions.		
Partner 1	Partner 2	Parts to Identify
		Foramen magnum - What is the function of this structure?
		Occipital condyles - What is the function of these structures?
		Which bone includes these structures?
		All correct on the same attempt? If not, try again.

<b>Part 3</b>		
<b>Outside Partner:</b> Rotate the skull to view from the side. Have your partner point to and identify the following 2 structures and explain their functions.		
Partner 1	Partner 2	Parts to Identify
		External auditory meatus - What is the function of this structure?
		Mastoid process - What is the function of this structure?
		Which bone includes these structures?
		All correct on the same attempt? If not, try again.

<b>Part 4</b>		
<b>Outside Partner:</b> Have your partner point to and identify the “Sphenoid bone”. While looking at it, hit the “B” button open the menu, from the menu select fade other bones. The “B” button will take you back to the menu and choose “display others” to restore it. The other option is to remove the other bones. Rotate the structure and examine the shape of the “Sphenoid bone”.		
Partner 1	Partner 2	Parts to Identify
		Locate, identify, and describe the Sphenoid bone
<b>Outside Partner:</b> Have your partner point to and identify the “Ethmoid bone”. While looking at it, hit the “B” button to fade other bones. The “B” button will take you back to the menu and choose “display others” to restore it. The other option is to remove the other bones. Rotate the structure and examine the shape of the “Ethmoid bone”.		
		Locate, identify, and describe the Ethmoid bone

<b>Part 5</b>		
<b>Outside Partner:</b> Have your partner point to and identify the following. Check off the ones they correctly identify. If they miss one, they have to do them all over again.		
Partner 1	Partner 2	Parts to Identify
		Coronal suture - Which bones fuse at this suture?
		Sagittal suture - Which bones fuse at this suture?
		Lambdoid suture - Which bones fuse at this suture?
		Squamous suture - Which bones fuse at this suture?
		All correct on the same attempt? If not, try again.

# FACIAL BONES

## Part 6

**Outside Partner:** Rotate the skull so your partner is viewing the face. Have your partner locate and identify the following list. Check off the ones they correctly identify. If they miss one, they have to do them all over again. Remove bones as needed to see each individual bone. (This is done by pressing the “A” button. The “X” button will restore removed bones one at a time.)

Partner 1	Partner 2	Parts to Identify
		Maxilla (2)
		Palatine bones (2) - Remove the mandible and orbit the model to view from the bottom.
		Zygomatic bones (2)
		Lacrimal bones (2)
		Nasal bones (2)
		Vomer bone
		Inferior nasal conchae (2)
		Mandible
		Which one of these bones is moveable?
		All correct on the same attempt? If not, try again.

## Part 7

**Outside Partner:** Instruct your partner to locate the “Hyoid bone.”

Partner 1	Partner 2	Question to answer
		What is unique about this bone?
		What purpose does it serve?
		Able to locate and answer both questions above correctly during one attempt?

## NASAL SEPTUM

### To view the Nasal Septum:

- go back to the main menu
- select “Muscles” from the top menu
- select “Head/Neck”
- Use the “B” button to open a menu, select disable muscles
- Use the “A” button to disable “Sensory”

<b>Part 8</b>		
<b>Outside Partner:</b> Orbit to inspect the proper position of the Nasal Septum.		
Partner 1	Partner 2	<b>Question to answer</b>
		What is the function of the nasal septum?

## AUDITORY OSSICLES

### To view the structures of the ear:

- go back to the main menu
- select “Sensory” from the top menu
- select “Middle Ear”

<b>Part 9</b>		
<b>Outside Partner:</b> Have your partner point to and identify the following. Check off the ones they correctly identify. If they miss one, they have to do them all over again.		
Partner 1	Partner 2	<b>Parts to Identify</b>
		Malleus (locate but it is not labeled in the model) - What common name do we use for this bone?
		Incus - What common name do we use for this bone?
		Stapes - What common name do we use for this bone?
		All correct on the same attempt? If not, try again.

# VERTEBRAL COLUMN

To view the Vertebral Column:

- go back to the main menu
- select “Skeletal” from the top menu
- select “Vertebral Column”

Part 10		
<p><b>Outside Partner:</b> Have your partner point to and identify the following. Check off the ones they correctly identify. If they miss one, they have to do them all over again.</p>		
Partner 1	Partner 2	Parts to Identify
		Cervical - How many are there?
		Thoracic - How many are there?
		Lumbar - How many are there?
		Have your partner describe the unique shape of each other that distinguishes it from the other two types.
		Sacrum - How many are fused?
		Coccyx - How many are fused?
		C <sub>1</sub> - What is it called?
		C <sub>2</sub> - What is it called?
		All correct on the same attempt? If not, try again.

# THORACIC CAGE

To view the Thoracic Cage:

- go back to the main menu
- select “Skeletal” from the top menu
- select “Thoracic Cage”

## Part 11

**Outside Partner:** Use the “B” button to open a menu, from the menu select remove “Cnnective” first. Then, instruct your partner point to locate and identify each of the following. Check off the ones they correctly identify. If they miss one, they have to do them all over again.

Partner 1	Partner 2	Parts to Identify
		Sternum - What is it commonly called?
		Manubrium (not labeled on the model)
		Body (not labeled on the model)
		Xiphoid process (not labeled on the model)
		True ribs (7 pairs - not labeled on the model) - Why are they called “true” ribs?
		False ribs (3 pairs - not labeled on the model) - Why are they called “false” ribs?
		Floating ribs (2 pairs - not labeled on the model) - Why are they called “floating” ribs?
		All correct on the same attempt? If not, try again.