

Head & Neck Anatomy

Skull Project

PERFORMANCE ASSESSMENT TASK

Competency

4. Identify anatomical landmarks of the head and neck.

Linked Core Abilities

- o Communicate clearly
- o Act responsibly
- o Work productively
- o Work cooperatively
- o Think critically and creatively
- o Apply scientific concepts effectively

Directions to Learner

The following scoring guide is to be used for each section of the skull project you will be completing for your laboratory activities. The skull project must meet 100% competency, or will need to be resubmitted to your laboratory instructor until it does meet this minimal standard. Please self-evaluate your work to make sure it meets the minimal standards as listed on the checklist guidelines prior to submission to your laboratory faculty.

THERE WILL BE A ONE POINT PREPARATION DEDUCTION FROM THE AFFECTIVE DOMAIN FOR ANY SKULL PROJECT COMPONENT NOT SUBMITTED ON TIME BY THE DATES AND TIMES SPECIFIED BY YOUR LABORATORY INSTRUCTOR.

You will be required to complete all components of the skull project according to the guidelines listed in the course manual and the checklist scoring guides.

If the terms "acceptable" and "unacceptable" are used on any checklist, then acceptable is worth one point and unacceptable is worth 0 points. If any item is unacceptable, it will need to be repeated until it is acceptable. Any other scoring must have all points completed.

Skeletal—label each of the bones, processes, or sutures as identified on the scoring guide. If it is a paired structure, only one of the pairs must be labeled. You might wish to consider writing lightly in pencil, then once you verify your work is correct, darken your lettering and cover with a thin coat of nail polish to seal and protect it.

Muscular—all muscles labeled appropriately, all demonstrate accurate origins and insertions, and labeled accurately.

Circulatory—all arteries and veins diagrammed and labeled appropriately. 1 point will be given for each of the artery and venous branches given—**FOLLOW THE SCORING GUIDE CAREFULLY TO ENSURE ALL ARTERIES AND VEINS ARE DIAGRAMMED!!** Label appropriately.

Lymphatic nodes & glands-identified on skull-represented through modeling clay, colored markers, yarns, closely follows pathway that might be expected to be seen on a three-dimensional head, labeled appropriately.

Nerves—represented through colored markers, yarns, closely follows pathway that might be expected to be seen on a three-dimensional head, all labeled appropriately.

Scenario/Prompt

The purpose of this project is to help you develop an intimate knowledge of the head through looking at all of its associated structures. For this project, you will be working with the different structures associated with the head—the skull, circulatory supply including the arteries and veins, lymphatics, the nerves, and the some of the muscles. While this project cannot include all the detail of the actual head, it will provide you with a hands-on opportunity to develop your own personal skull project to help you remember the basic structures as a cornerstone to all the other work you will do throughout the entire course of your career in dental hygiene.

Directions to Evaluator

Each section of the skull project must be passed at a competency level of 100%. If a learner has any of the required elements missing from their project according to the scoring guide, that component of the skull project must be redone until all elements are represented. If a section of the skull project originally is not passing and a new submission is required, the **HIGHEST** score to be recorded for the new submission is **ALL** of the points. **SKULL PROJECT SUBMISSIONS NOT COMPLETED ON TIME ARE SUBJECT TO AN AUTOMATIC ONE POINT AFFECTIVE DEDUCTION.** See the directions to learner for all required elements and how the scoring guides should be used.

Evaluators:

Please record each of the skull project elements **as** total points for reporting **purposes**:

(Example) Skull Project Student: Patty Propy

Skull	25/24
Circulation	31/30
Lymphatics	5/4
& Glands	
Nerves	18/17
Muscles	21/20
Total:	100/95

The total score will be calculated into the overall score for the course.

Scoring Guide 1 Skull Project-Skeletal

No.	Criteria	Values
	Cranial Bones:	
	Occipital bone	present not present
	Frontal bone	present not present
	Parietal bones	present not present
	Temporal bones	present not present
	Sphenoid bone	present not present
	Ethmoid bone	present not present
	Facial Bones:	
	Vomer	present not present
	Lacrimal bones	present not present
	Nasal bones	present not present

	Inferior nasal conchae	present	not present
	Zygomatic bones	present	not present
	Maxillary bones	present	not present
	Mandible	present	not present
	Sutures:		
	Coronal suture	present	not present
	Sagittal suture	present	not present
	Lambdoidal suture	present	not present
	Squamosal suture	present	not present
	Temporozygomaic suture	present	not present
	Median palatine suture	present	noi present
	Transverse palatine suture	present	not present
	Processes:		
	Coronoid process	present	not present
	Mastoid process	present	not present
	Styloid process	present	not present
	Palatine process	present	not present
	Completed and submitted BEFORE laboratory due date	yes	worth one extra point

Scoring Guide 2 Skull Project-Muscles

No.	Criteria	Values
	Muscles of Mastication developed with modeling clay on skull:	
	Masseter	0 1
	Temporal is	0 1
	Medial pterygoid	0 1
	Lateral pterygoid	0 1
	Accessory Muscle of Mastication:	

	Buccinator	0 1
	Completed and submitted BEFORE laboratory due date	yes Worth one extra point

Scoring Guide 3 Skull Project-circulation

No.	Criteria	Values
	Arteries & veins identified on skull-represented through colored markers, yarns, closely follows pathway that might be expected to be seen on a three-dimensional head	
	Arteries:	
	Facial artery— submental artery, inferior labial artery, superior labial artery, and the angular artery	0 1
	Maxillary artery and the following associated branches--inferior alveolar artery, mylohyoid, mental artery, and incisive artery	0 1
	Maxillary artery and the following associated branches— buccal artery, infraorbital artery, posterior alveolar, and anterior superior alveolar arteries	0 1
	Maxillary artery and the following associated branches--greater and lesser palatine, sphenopalatine, and nasopalatine	0 1
	Veins:	
	Retromandibular vein	0 1
	Maxillary vein— pterygoid plexus	0 1
	Inferior alveolar and mental veins	0 1
	Facial vein and the following associated branches--supraorbital vein, ophthalmic vein, superior labial vein, inferior labial vein	0 1
	Completed and submitted BEFORE laboratory due date	yes Worth one extra point

Scoring Guide 4 Skull Project-Lymphatics & Glands

No.	Criteria	Values
	Lymphatic nodes and glands identified on skull—represented through modeling clay, colored markers, yarns, closely follows pathway that might be expected to be seen on a three-dimensional head	
	Parotid gland	acceptable unacceptable
	Sublingual gland	acceptable unacceptable
	Submandibular gland	acceptable unacceptable
	Facial lymph node chain	acceptable unacceptable
	Completed and submitted BEFORE laboratory due date	yes Worth one extra point

Scoring Guide 5 Skull Project-Nerves

SAMPLE

No.	Criteria	Values
	Nerves identified on skull-represented through colored markers, yams, closely follows pathway that might be expected to be seen on a three-dimensional head	
	Trigeminal Nerve (V) Ophthalmic Division (VI) Branches:	
	Trigeminal Nerve (V) Maxillary Division (V2) Branches:	
	Anterior superior alveolar nerve	acceptable unacceptable
	Middle superior alveolar nerve	acceptable unacceptable
	Posterior superior alveolar nerve	acceptable unacceptable
	Greater and lesser palatine nerves	0 1
	Nasopalatine nerve	acceptable unacceptable
	Trigeminal Nerve (V) Mandibular Division (V3) Branches:	
	Buccal nerve	acceptable unacceptable
	Lingual nerve	acceptable unacceptable
	Inferior alveolar nerve	acceptable

		unacceptable
	Mental nerve	acceptable unacceptable
	Facial Nerve (VII) Branches:	
	The following branches of the facial nerve— mandibular branch, buccal branches, zygomatic branches, and the temporal branches	acceptable unacceptable
	Completed and submitted BEFORE laboratory due date	yes Worth one extra point

Evaluator _____ **Date** _____