**DEPARTMENT OF NORMAL ANATOMY**

**OSTEOLOGY PINS**

 **SKULL**

1. **greater wing of sphenoid bone**
2. **lesser wing of sphenoid bone**
3. **dental alveolus**
4. **angle of mandible**
5. **external aperture of carotid canal**
6. **supraciliary arch**
7. **zygomatic arch**
8. **condylar canal**
9. **hypoglossal canal**
10. **optic canal**
11. **condylar process of mandible**
12. **clivus**
13. **inferior nasal concha**
14. **occipital condyle**
15. **body of mandible**
16. **crista galli**
17. **external occipital crest**
18. **sphenoidal jugum**
19. **dorsum sellae**
20. **arcuate eminence**
21. **inferior orbital fissure**
22. **superior orbital fissure**
23. **incisive foramen**
24. **infraorbital foramen**
25. **jugular foramen**
26. **foramen lacerum**
27. **mandibular foramen**
28. **foramen magnum**
29. **mental foramen**
30. **oval foramen**
31. **greater palatine foramen**
32. **foramen rotundum**
33. **spinous foramen**
34. **stylomastoid foramen**
35. **ethmoidal foramina**
36. **digastric fovea**
37. **mandibular fossa**
38. **pterygoid fossa**
39. **pterygopalatine fossa**
40. **retromolar fossa**
41. **scaphoid fossa**
42. **sublingual fossa**
43. **submandibular fossa**
44. **pterygoid hamulus**
45. **hiatus for greater petrosal nerve**
46. **hiatus for lesser petrosal nerve**
47. **trigeminal impression**
48. **mandibular notch**
49. **pterygoid notch**
50. **cribriform plate of ethmoid bone**
51. **horizontal plate of palatine bone**
52. **perpendicular plate of ethmoid bone**
53. **mylohyoid line**
54. **oblique line**
55. **lingula of mandible**
56. **ethmoid bone; ethmoidal bone**
57. **hyoid bone**
58. **lacrimal bone**
59. **nasal bone**
60. **palatine bone**
61. **sphenoid; sphenoidal bone**
62. **zygomatic bone**
63. **alveolar part of mandible**
64. **basilar part of occipital bone**
65. **lateral part of occipital bone**
66. **orbital part of frontal bone**
67. **petrous part of temporal bone**
68. **aperture of internal acoustic meatus**
69. **alveolar process of maxilla**
70. **anterior clinoid process**
71. **coronoid process of mandible**
72. **mastoid process**
73. **palatine process of maxilla**
74. **pterygoid process of sphenoidal bone**
75. **styloid process**
76. **uncinate process**
77. **mental protuberance**
78. **external occipital protuberance**
79. **ramus of mandible**
80. **sphenoethmoidal recess**
81. **rostrum of sphenoid**
82. **sella turcica**
83. **anterior nasal spine**
84. **squamous part of frontal bone**
85. **squamous part of occipital bone**
86. **groove for greater petrosal nerve**
87. **groove for lesser petrosal nerve**
88. **groove for superior sagittal sinus**
89. **sulcus for sigmoid sinus**
90. **groove for transverse sinus**
91. **coronal suture**
92. **lambdoid suture**
93. **occipitomastoid suture**
94. **median palatine suture**
95. **transverse palatine suture**
96. **parietomastoid suture**
97. **sagittal suture**
98. **sphenoparietal suture**
99. **sphenosquamous suture**
100. **frontal tuber; frontal eminence**
101. **maxillary tuberosity**
102. **pharyngeal tubercle**
103. **mental tubercle**
104. **massteric tuberosity**
105. **pterygoid tuberosity**
106. **vomer**

**AXIAL SKELETON**

1. **ala; wing of sacrum**
2. **sternal angle**
3. **anulus fibrosus**
4. **inferior thoracic aperture; thoracic outlet**
5. **superior thoracic aperture; thoracic inlet**
6. **apex of sacrum**
7. **costal margin; costal arch**
8. **vertebral arch**
9. **atlantoaxial joint**
10. **atlantooccipital joint**
11. **joint of head of rib**
12. **costotransverse joint**
13. **sacral canal**
14. **head of rib**
15. **neck /tubercle/ of rib**
16. **sacral horn**
17. **body of sternum**
18. **vertebral body**
19. **intermediate sacral crest**
20. **lateral sacral crest**
21. **median sacral crest**
22. **dens of axis**
23. **intervertebral disc**
24. **auricular surface**
25. **costotransverse foramen**
26. **intervertebral foramen**
27. **foramen transversarium**
28. **vertebral foramen**
29. **anterior sacral foramina**
30. **posterior sacral foramina**
31. **inferior costal facet**
32. **transverse costal facet**
33. **superior costal facet**
34. **facet for dens**
35. **sacral hiatus**
36. **clavicular notch**
37. **jugular notch**
38. **inferior vertebral notch**
39. **superior vertebral notch**
40. **radiate ligament of head of rib**
41. **costoclavicular ligament**
42. **cruciate ligament of atlas**
43. **interclavicular ligament**
44. **intertransverse ligaments**
45. **anterior longitudinal ligament**
46. **posterior longitudinal ligament**
47. **nuchal ligament**
48. **supraspinous ligament**
49. **yellow ligament**
50. **sternal manubrium**
51. **lateral masses**
52. **tectorial membrane**
53. **nucleus pulposus**
54. **coccyx**
55. **articular process**
56. **costal process**
57. **spinous process**
58. **transverse process**
59. **xiphoid process**
60. **promontory**
61. **groove for vertebral artery**
62. **costal groove**
63. **anterior tubercle**
64. **carotid tubercle**
65. **posterior tubercle**
66. **sacral tuberosity**
67. **uncus of body of cervical vertebra**
68. **vertebra prominent**

**APPENDICULAR SKELETON**

1. **acetabulum**
2. **acromion**
3. **wing of ilium**
4. **scapular inferior angle**
5. **superior angle**
6. **acromioclavicular joint**
7. **carpometacarpal joint**
8. **hip joint;**
9. **elbow joint**
10. **knee joint**
11. **glenohumeral/ shoulder joint**
12. **intercarpal joint**
13. **intermetacarpal joint**
14. **interphalangeal joint**
15. **metacarpophalangeal joint**
16. **wrist (radiocarpal) joint**
17. **sternoclavicular joint**
18. **talocrural joint; ankle joint**
19. **transverse tarsal articulation**
20. **tarsometatarsal articulations**
21. **sacroiliac joint**
22. **tibiofibular joint**
23. **calcaneus**
24. **carpal tunnel**
25. **capitulum of humerus**
26. **head of femur**
27. **head of fibula**
28. **head of humerus**
29. **head of radius**
30. **head of ulna**
31. **glenoid cavity**
32. **anatomical neck**
33. **surgical neck**
34. **neck of femur**
35. **condyle of humerus**
36. **medial/lateral/ condyle of femur**
37. **lateral condyle of tibia**
38. **medial condyle of tibia**
39. **iliac crest**
40. **intertrochanteric crest**
41. **supinator crest**
42. **pubic crest**
43. **articular disk**
44. **radial carpal eminence**
45. **ulnar carpal eminence**
46. **intercondylar eminence**
47. **iliopubic eminence**
48. **lateral epicondyle of femur**
49. **lateral epicondyle of humerus**
50. **medial epicondyle of femur**
51. **medial epicondyle of humerus**
52. **acromial end of clavicle**
53. **sternal end of clavicle**
54. **inferior articular surface of tibia**
55. **carpal articular surface of radius**
56. **sternal facet of clavicle**
57. **auricular surface of ilium**
58. **patellar surface**
59. **popliteal surface**
60. **symphysial surface**
61. **greater sciatic foramen**
62. **lesser sciatic foramen**
63. **obturator foramen**
64. **intercondylar fossa**
65. **coronoid fossa**
66. **intercondylar fossa**
67. **olecranon fossa**
68. **radial fossa**
69. **fovea for ligament of head of femur**
70. **impression for costoclavicular ligament**
71. **fibular notch of tibia**
72. **greater sciatic notch**
73. **lesser sciatic notch**
74. **suprascapular notch**
75. **annular ligament of radius**
76. **fibular collateral ligament**
77. **radial collateral ligament**
78. **tibial collateral ligament**
79. **ulnar collateral ligament**
80. **coracoacromial ligament**
81. **coracoclavicular ligament**
82. **coracohumeral ligament**
83. **anterior cruciate ligament**
84. **posterior cruciate ligament**
85. **iliofemoral ligament**
86. **iliolumbar ligament**
87. **inguinal ligament**
88. **interclavicular ligament**
89. **ischiofemoral ligament**
90. **arcuate popliteal ligament**
91. **oblique popliteal ligament**
92. **inferior pubic ligament**
93. **superior pubic ligament**
94. **pubofemoral ligament**
95. **sacrospinal ligament**
96. **sacrotuberal ligament**
97. **anterior sternoclavicular ligament**
98. **posterior sternoclavicular ligament**
99. **transverse ligament of knee**
100. **glenohumeral ligaments**
101. **meniscofemoral ligaments**
102. **anterior sacroiliac ligaments**
103. **posterior sacroiliac ligaments**
104. **linea aspera**
105. **anterior gluteal line**
106. **inferior gluteal line**
107. **posterior gluteal line**
108. **intercondylar line**
109. **intertrochanteric line**
110. **soleal line**
111. **pectineal line; spiral line of femur**
112. **terminal line**
113. **trapezoid line**
114. **lateral malleolus**
115. **medial malleolus**
116. **anterior border of fibula**
117. **interosseous border**
118. **interosseus membrane of forearm**
119. **obturator membrane**
120. **lateral meniscus**
121. **medial meniscus**
122. **olecranon**
123. **capitate**
124. **cuboid**
125. **hamate**
126. **ilium**
127. **ischium**
128. **lunate**
129. **navicular**
130. **pisiform**
131. **pubis**
132. **scaphoid**
133. **trapezium**
134. **trapezoid**
135. **triquetrum**
136. **cuneiform**
137. **metacarpal bone**
138. **metatarsal bone**
139. **patella**
140. **coracoid process**
141. **coronoid process**
142. **styloid process of radius**
143. **styloid process of ulna**
144. **superior pubic ramus**
145. **flexor retinaculum**
146. **tarsal sinus**
147. **anterior inferior iliac spine**
148. **anterior superior iliac spine**
149. **ischial spine**
150. **spine of scapula**
151. **intertubercular sulcus; bicipital groove**
152. **malleolar groove**
153. **subclavian groove; groove for subclavius**
154. **groove for ulnar nerve**
155. **sustentaculum tali**
156. **pubic symphysis**
157. **tibiofibular syndesmosis**
158. **talus**
159. **greater trochanter**
160. **lesser trochanter**
161. **trochlea of humerus**
162. **calcaneal tuberosity**
163. **ischial tuberosity**
164. **adductor tubercle**
165. **conoid tubercle**
166. **iliac tubercle**
167. **infraglenoid tubercle**
168. **lateral intercondylar tubercle**
169. **medial intercondylar tubercle**
170. **greater tubercle of humerus**
171. **lesser tubercle of humerus**
172. **pubic tubercle**
173. **supraglenoid tubercle**
174. **deltoid tuberosity**
175. **gluteal tuberosity**
176. **radial tuberosity**
177. **tibial tuberosity**
178. **ulnar tuberosity**
179. **ulna**
180. **radius**