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| Axial | relating to head, neck, and trunk |
| Skeleton | 206 bones organized into structural framework |
| Appendicular | relating to limbs and their attachments to the axis |
| Function of Skeletal System | <ol style="list-style-type: none">1. Movement2. Protection3. Support4. Mineral Storage5. Make Blood Cells |
| Abdominal | anterior body trunk region inferior to ribs |

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|-----------------------|---|
| Axial skeleton | bones of the body's central axis skull, vertebral column, rib cage 80 bones |
| Acromial | point of the shoulder |
| Make blood Cells | Hematopoiesis |
| Antebrachial | forearm |
| Appendicular skeleton | bones of upper and lower appendages and bones attaching them to the axial skeleton |

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| Antecubital | anterior surface of elbow |
| End of bone | epiphysis |
| Axillary | armpit |
| Skull | Major regions: cranium and facial region |
| Brachial | arm |

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| Shaft of Bone | Diaphysis |
| Buccal | cheek |
| Cranium | <p>8 bones are flat and tightly fused to each other</p> <p>Roof = frontal bone, parietal bones and occipital bones</p> |
| Carpal | wrist |
| Dense outer shell of bone | Compact Bone |

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| Cervical | neck region |
| Facial bones | support several of the sensory organs of the head including eyes, ears, and nose |
| Coxal | hip |
| Spongy Bone | Cancellous Bone |
| Crural | leg |

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| Sutures | immovable, jagged joints of cranium |
| Digital | fingers or toes |
| Arches of Spongy Bone | Trabeculae |
| Femoral | thigh |
| Frontal bone | forehead and anterior roof of cranium |

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| Frontal | forehead |
| Thin epithelial tissue on bone | periostium |
| Parietal bones (2) | form posterior roof of cranium, and are arched flattened bones joined at their midline |
| Hallux | big toe |
| Weight of skeleton at adult size | 35 - 45 pounds |

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| Inguinal | groin |
| Occipital bones | form the posterior cranial floor |
| Mammary | breast |
| Mature bone cell | osteocyte |
| Mental | chin |

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| suborbital foramen | opening through which nerves and blood vessels pass to the forehead. Site of frontal sinus |
| Nasal | nose |
| bone cell destroyer | osteoclasts |
| Oral | mouth |
| Frontal sinus | where air circulates and is "conditioned" |

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| Orbital | bony eye socket |
| baby bone cells | osteoblasts |
| Palmar | palm of the hand |
| Foramen magnum | large hole in occipital bone through which the brain continues to the spinal cord. |
| Patellar | kneecap |

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| bone-to-bone | ligaments |
| Pedal | foot |
| Pelvic | pelvis region |
| Occipital condyles | two rounded projections where the base of the skull meets the top of the vertebral column |
| Fibular (peroneal) | side of the leg |

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| bone-to-muscle | tendons |
| Pollex | thumb |
| Temporal bones (2) | Lateral walls of cranium form part of internal floor of cranium |
| Pubic | genital region |
| Forehead | Frontal |

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| Sternal | breastbone |
| External auditory meatus | Opening in the temporal bone brings sound waves into skull to inner ear |
| Tarsal | ankle |
| top sides of head | parietal |
| Thoracic | chest |

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| Mastoid process | below each ear opening, point of attachment for many muscles of the neck |
| Umbilical | navel |
| back of head | occipital |
| Calcaneal | heel of foot |
| styloid process | pointed lies below external auditory meatus where pharyngeal and tongue muscles attach |

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| Cephalic | head |
| sides of head | temporal |
| Dorsum | back |
| Mandibular fossa | depression wherer the temperalo bone articulates with a process of the mandible |
| Gluteal | buttocks |

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| top jaw | maxilla(e) |
| Lumbar | lower back |
| Zygomatic process | Projection of the temporal bone that helps form the cheekbone |
| Manus | hand |
| bottom jaw | mandible |

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| Occipital | back of head |
| Sphenoid bone | butterfly shape forms the anterior internal floor of the cranium |
| Olecranal | posterior elbow |
| bony protrusion by the ear | mastoid process |
| Otic | ear |

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| Sella turcica | Where pituitary gland lies saddle shaped depression in the sphenoid bone |
| Perineal | between anus and external genitalia |
| cheek bone | zygomatic (arch) |
| Plantar | sole of foot |
| Orbital fissure | slit in the top of sella turcica blood vessels and nerves pass through this slit |

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| Popliteal | back of knee |
| Hole at base of skull | foramen magnum |
| Sacral | between the hips |
| ethmoid bone | small cranial bone separates nasal cavity from remainder of craniumolfactory nerve fibers pass from nose to brain through the ethmoid process |
| Scapular | shoulder blade |

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| Suture between frontal and parietal | coronal suture |
| Sural | calf |
| Cribriform plates | two thin horizontal plates of bone called the cribriform plates |
| Vertebral | spinal column |
| suture between parietal and parietal | sagittal suture |

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| Superior | above |
| Crista galli | Triangular process - projects upward between the cribiform plates |
| Inferior | below |
| suture between parietal and occipital | lambdoidal suture |
| Anterior | front |

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| Fontanel | soft membranes on skulls of newborn before skull bones have fused together |
| Posterior | back |
| suture between temporal and parietal | squamosal suture |
| Medial | toward the midline or median plane |
| Fissure | slit between tow bones through which nerves or blood vessels pass |

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| Lateral | away from the midline or median plane |
| tongue bone | hyoid bone |
| Cephalad (cranial) | toward the head |
| Foramen | hole within a bone through which nerves or blood vessels pass |
| Caudal | toward the tail |

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| Muscles of tongue that change its shape | intrinsic |
| Dorsal | backside |
| Meatus | Tubelike passageway within a bone |
| Ventral | belly side |
| muscles that push tongue out | extrinsic |

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| Proximal | nearer the trunk or attached end |
| Sinus | Cavity within a bone (opening) |
| Distal | farther from trunk or point of attachment |
| flap of skin that holds tongue in | lingual frenulum |
| Superficial (external) | toward or at the body surface |

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| Fossa | simple depression or hollowing in or on a bone |
| Deep (internal) | away from the body surface |
| flap of skin that holds lips in | labial frenulum |
| Sulcus | groove that may contain a blood vessel, nerve, or tendon |
| # of cervical vertebrae | 7 |

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| Condyle | Large convex protrusion at the end of a bone |
| # of thoracic | 12 |
| Head | Round protrusion separated from the rest of a bone by a neck |
| # of lumbar vertebrae | 5 |
| Facet | Flat, smooth surface |

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| # of sacral vertebrae | 5 - fused into 1 |
| Crest | Prominent ridge on a bone (iliac) |
| # of caudal vertebrae | 3-5 fused into coccyx |
| Epicondyle | Second protrusion above a condyle |
| sacro-iliac joint is made of: | hyaline cartilage |

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| Line | less prominent ridge on a bone |
| intervertebral disks are made of: | fibrocartilage |
| Tubercle | Small round protrusion |
| superior end of sternum | manubrium |
| Tuberosity | Large, round and usually roughened protrusion (ischial tuberosity of coxal bone) |

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| middle of sternum | gladiolus |
| Trochanter | Large protrusion (greater trochanter of femur) |
| cats sternum is composed of | individual sternabrae |
| Face | Made up of 14 bones Provide attachment for chewing muscles and support other facial muscles |
| formal name for ribs | costals |

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| Nasal bones | 2 bones fused at midline - form the bridge of the nose |
| # of costals | 12 |
| Vomer bone (nasal septum) | divides nasal cavity into left and right |
| # of costals NOT connected to sternum | 2 |
| Inferior nasal conchae | plates that form side of nasal cavity |

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| name of unconnected costals | "floating" ribs |
| Zygomatic bones | 2 bones below eye sockets - support face, form part of cheekbones |
| purpose of "floating" ribs | to protect kidneys |
| Temporal process | projects to join zygomatic process at zygomatic arch |
| costal cartilage is made of: | hyaline |

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| Zygomatic arch | where cheekbone is formed |
| 2 places where elastic cartilage is found: | <ul style="list-style-type: none"> - inner ear - trachea |
| Lacrimal bones | <p>near the medial corners of the eye</p> <p>Grooves in the bones permit tears to drain from the eye into the nasal cavity</p> |
| Pectoral Girdle is composed of: | arms + shoulder + collar bone |
| Maxillae | <p>2 bones that form upper jaw</p> <p>Fuse at midline</p> <p>contain maxillary sinuses</p> |

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| collar bone | clavicle |
| Palatine bones | forms floor of nasal cavity and lateral walls of nasal cavity |
| most frequently broken bone in body | clavicle |
| Mandible | lower jaw horseshoe shaped bone with hingelike joint |
| shoulder bone | scapula |

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| Mandibular condyle | at eah end of mandible, projection extends upward articulates with mandibular fossa |
| socket of shoulder joint | glenoid fossa(e) |
| Mandibular fossa | one of the temporal bones |
| superior protrusion to shoulder joint | acromion process |
| Coronoid process | Attachment site for muscles of mastication (chewing) |

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| bone of upper arm | humerus |
| Vertebral column | Backbone, spine Contains 26 vertebrae 7 cervical 12 thoracic 5 lumbar 1 sacrum 1 coccyx |
| pit on back of humerus that prevents arm from move than a 180 degree angle | Olecranal fossa(e) |
| sacrum | formed by the fusion of 5 sacral vertebrae |
| ulna's articulation point with humerus | olecranal |

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| Coccyx | formed by the fusion of 4 coccygeal vertebrae |
| medial bone in arm | ulna |
| Intervertebral disks | Disks of fibrous cartilage with soft inner core absorb shocks and permit flexibility |
| lateral bone in arm | radius |
| Herniated disk | Disks bulge out of shape protrusion of the disk presses on the spinal cord or a nerve bringing pain and numbness |

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| bone in arm with a round proximal head | radius |
| Scoliosis | Abnormal sideways spinal curve |
| # of wrist bones | 8 |
| Kyphosis | Exaggerated thoracic curve hunchback |
| wrist bones | carpals |

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| Lordosis | exaggerated curve of lumbar area swayback |
| most medial carpal | pisiform |
| Body of vertebra | weight-bearing cylinder of bone between the disks |
| sesmoid of the wrist | pisiform |
| Vertebral arch | extends behind the body to enclose and protect the spinal cord as it passes through the opening to the arch |

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| palm bones | metacarpals |
| Vertebral foramen | opening that spinal cord passes through |
| # of metacarpals | 5 |
| Spinous processes | near midline - sites of attachment |
| proper name for fingers | digits |

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| Transverse processes | on either side of midline |
| # of phalanges per digit and total | 3 for each finger 2 for thumb 14 total |
| Articular processes of vertebrae (superior and inferior) | Sites of attachment for back muscles and ligaments |
| formal name for thumb | pollex |
| Pedicles | 2 short bony cylinders that project from the vertebral body toward the posterior and form the sides of the vertebral arch |

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| The pelvic girdle is composed of: | the hips and legs |
| Intervertebral foramina | <p>Openings in pedicles</p> <p>Nerves from spinal cord pass through as they extend to body tissues</p> |
| Latin for "I have no name" | Innominate |
| Atlas | Cervical vertebra that balances and supports the head |
| name for full pelvic structure | innominate |

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| Facets | two processes of atlas that articulate with occipital condyles |
| broad flat area of hip | illum |
| odontoid process (dens) | of axis - projects upward into ring of the atlas Joint where head rotates |
| most superior part of hip | illac crest |
| Thoracic cage | formed by sternum plus ribs |

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| anterior (ventral) inferior hip bone | pubis |
| Manubrium | upper shield like portion of sternum |
| posterior (dorsal) inferior hip bone | ischium |
| body of sternum | central portion shaped like a dagger attached to most ribs |
| pad of cartilage between both pubis bones | pubic symphysis |

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| Xiphoid process | forms lowermost part of sternum (point) |
| The pubic symphysis is made of: | fibrocartilage |
| Ribs | 12 pair |
| hole made between pubis and ischium | obturator foramen |
| True ribs | first 7 pairs of ribs attach to sternum by strips of cartilage called hyaline costal cartilages |

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| hip socket | acetabulum |
| Hyaline costal cartilages | strips of cartilage that connect first 7 pairs of ribs to sternum (ribs 8-10 have costal cartilages by merge with the 7th rib) |
| gender with greater hip angle | female |
| Facets | flat sides of ribs |
| gender with lesser hip angle | male |

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| False ribs | 5 pairs of ribs not directly attached to sternum |
| purpose of obturator foramen | a passageway for nerves, arteries, and veins into leg |
| Floating ribs | Ribs 11 and 12 do not attach to sternum at all |
| longest, strongest, and heaviest bone in body | femur |
| Girdle | Appendages and bones connecting appendages to the axial skeleton |

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| superior Lateral process of femur | greater trochanter |
| pectoral girdle | connects arm bones to the rib cage |
| superior medial process of femur | lesser trochanter |
| pelvic girdle | connects leg bones to the sacrum |
| inferior medial process of femur | medial epicondyle |

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| scapula | large triangular bone connected to axial skeleton by muscles and ligaments posterior surface contains bony portion called spine |
| inferior lateral process of femur | lateral epicondyle |
| spine of scapula | bony surface on posterior of scapula leads to acromion process and coracoid process |
| formal name for knee cap | patella |
| Acromion process | forms tip of shoulder |

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| 3 "stony" bones | <ul style="list-style-type: none"> - pisiform - patella - sesmoid |
| Glenoid fossa | socket on narrow end of scapula to receive upper arm bone |
| larger foreleg bone | tibia |
| Clavicle | rod shaped bone that braces scapula against the top of the sternum |
| smaller foreleg bone | fibula |

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| Humerus | upper arm bone - rounded head at upper end |
| lateral foreleg bone | fibula |
| Greater tubercle and Lesser tubercle | round protrusions below the head of the humerus Provide sites for muscles to attach |
| medial foreleg bone | tibia |
| Intertubercular groove | furrow lying between the greater and lesser tubercles |

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| where patellar ligament attaches to a calf bone | tibial tuberosity |
| Deltoid tuberoscity | near center of humerus v shaped area where deltoid muscle attaches |
| type of cartilage patellar ligament is made of | hyaline |
| Condyles | 2 at lower end of humerus, where lower arm bones, the ulna and radius articulate |
| # of tarsal bones per foot | 7 |

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| Epicondyles | above condyles for muscle attachments |
| # of metatarsals per foot | 5 |
| Coronoid fossa | depression between the epicondyles that receives the coronoid process of the ulna |
| Location of tarsal bones | ankle |
| Olecranon fossa | Receives the olecranon process of the ulna |

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| location of metatarsals | sole of foot |
| Radius | lateral bone of forearm thumb side articulates with the humerus at the head of the radius |
| heel bone | calcaneus |
| UlnaRadial tuberosity | medial bone of the forearm (little finger side) articulates with humerus at coronoid process and olecranon procss - process on the radius used for muscle attachments |
| formal name(s) for Achilles tendon | - tendocalcaneous - calcaneal tendon |

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| Styloid process | at distal ends of the radius receives ligaments from the wrist |
| # of digits on each foot | 5 |
| Carpals | 8 carpal bones in 2 rows of 4 each Pisiform, lunate, triangular, hamate, capitate, scaphoid, trapezoid, trapezium small size allows flexibility in wrist |
| # of phalanges per foot | 14 |
| Metacarpals | 5 bones in the fleshy portion of the hand connects to carpals |

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| formal name for big toe | hallux |
| Phalanges (phalanx) | Finger bones Thumb has 2 Fingers have 3 |
| small inferior bone on metatarsal | sesmoid |
| os coxae (pelvic bones) | connected to sacrum by fibrous connective tissue Formed by fusion of 3 bones: ilium, ischium, nad pubis |
| purpose of sesmoid bone (of foot) | to balance |

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| Iliac crest | The edge of the area we sit on |
| rounded top tarsal bone | talus |
| Sacroiliac joint | Where ilium joins the sacrum |
| bone where tibia articulates with foot | talus |
| Ischial tuberosity | Where ligaments and leg muscles attach |

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| color of active blood cell producing tissue | red |
| Ischial spine | sharp projection lies above the tuberosity |
| color of inactive blood cell producing tissue | yellow |
| acetabulum | Cuplike socket where the head of the femur articulates |
| what makes yellow bone marrow yellow? | higher fat content |

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| Pubic symphysis | <p>midline joint where left and right pubic bones fuse</p> <p>flexible to allow passage of fetus</p> |
| function of red bone marrow | <p>to produce red and white blood cells (hematopoiesis)</p> |
| Obturator foramen | <p>Large opening between bodies of pubis and ischium</p> <p>exists for passage of nerves and blood vessels to the lower leg</p> <p>Skeleton's largest foramen</p> |
| where is red bone marrow found? | <p>in flat bones and spongy ends of bones</p> |
| Femur | <p>Upper leg bone</p> <p>joins pelvic girdle at acetabulum</p> <p>Head, neck, greater and lesser trochanter</p> |

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| Bone is made of (the compounds) | <ul style="list-style-type: none"> - Calcium Carbonate CaCO_3 - Calcium Phosphate $\text{Ca}_3(\text{PO}_4)_2$ |
| Greater and lesser trochanter | two large protrusions on femur |
| Where is yellow bone marrow found? | inside hollow shaft of compact bone (diaphysis) |
| Lateral and medial condyle | <p>2 rounded projections at lower end of femur</p> <p>Articulate with condyles of tibia</p> |
| What is used as a basic buffer in blood? | CO_3^{2-} (from the CaCO_3 in bone) |

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| Patella | kneecap, where femur meets lower leg bones |
| What is used as an acid buffer in blood? | H ₂ CO ₃ - Carbonic Acid (H ₂ O + CO ₂) |
| Tibia | larger lower leg bone on inside has lateral and medial condyle |
| Where cancellous bone is found? | ends of bones (epiphysis) |
| Tibial tuberosity | on front (anterior) side of tibia, attachment for patellar ligament |

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| Medial malleolus | prominence on ankle, site for ligament attachment |
| Malleolar sulcus | Groove where blood vessels pass |
| Fibula | thin bone extending down the lateral portion of leg |
| Lateral malleolus | lower end of leg where ligaments attach |
| Tarsals | 7 - form ankle Talus, calcaneus, navicular, cuboid, lateral cuneiform, medial cuneiform, intermediate cuneiform |

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| Metatarsals | forms instep |
| Phalanges | Toes |
| The bones of the upper and lower appendages comprise the | Appendicular skeleton |
| The movement of bones is controlled by the body's | skeletal muscles |
| The number of bones in the axial skeleton is | 80 |

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| The number of bones in the cranium is | 8 |
| The cranial bones are fused together at immovable joints known as | sutures |
| The forehead and anterior roof of the cranium is formed by the | frontal bone |
| The posterior cranial floor is formed by | occipital bone |
| The occipital bone contains a large hole for passage of the spinal cord known as | foramen magnum |

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| <p>The bones that form the side walls of the cranium are</p> | <p>temporal bones</p> |
| <p>The mastoid process is the rounded process of the</p> | <p>temporal bone</p> |
| <p>The projection of the temporal bone that helps form the cheekbone is</p> | <p>zygomatic process</p> |
| <p>The cranial bone that has the shape of a butterfly and forms the anterior internal floor of the cranium is the</p> | <p>sphenoid bone</p> |
| <p>The two thin perforated horizontal plates of bone in the ethmoid bone form the</p> | <p>cribriform plate</p> |

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| <p>The pituitary gland lies in a saddle-shaped depression of the sphenoid bone known as the</p> | <p>sella turcica</p> |
| <p>Membranous areas in the skullbone of a newborn are known as</p> | <p>Fontanels</p> |
| <p>The nasal cavity is divided into left and right chambers by a vertical partition known as</p> | <p>Vomer bone</p> |
| <p>Each zygomatic bone has a projection that helps form the cheekbone and is known as the</p> | <p>Temporal process</p> |
| <p>The smallest facial bones are the</p> | <p>lacrimal bones</p> |

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| The upper jaw is formed by two bones called | maxillae |
| The lower jaw bone is shaped as a horseshoe and is called the | mandible |
| The vertebral column is composed of 26 bones known as | vertebrae |
| The five sacral vertebrae fuse to one another to form the | sacrum |
| The vertebrae of the neck are known as | cervical vertebrae |

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| <p>The unfused vertebrae of the vertebral column are separated from one another by</p> | <p>intervertebral disks</p> |
| <p>An abnormal sideways curve of the spinal column is known as</p> | <p>scoliosis</p> |
| <p>The weight-bearing cylinder of the vertebral bone that is found between the disks is the</p> | <p>body</p> |
| <p>The spinal cord extends through the vertebral column by passing through openings in the vertebrae known as</p> | <p>vertebral foramina</p> |
| <p>The first vertebrae of the vertebral column is called the</p> | <p>atlas</p> |

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| <p>The process of the axis that projects upward into the ring of the first vertebrae is the</p> | <p>odontoid process</p> |
| <p>The three recognizable parts of the sternum are the manubrium, the body, and the</p> | <p>xiphoid process</p> |
| <p>The true ribs are attached directly to the sternum by the</p> | <p>hyaline costal cartilages</p> |
| <p>The last two pairs of ribs do not attach to the sternum and are known as</p> | <p>floating ribs</p> |
| <p>The arms are connected to the rib cage by connecting bones organized as the</p> | <p>pectoral girdle</p> |

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| <p>The acromion and coracoid processes are both parts of a bone called the</p> | <p>scapula</p> |
| <p>The anterior rod-shaped bones that helps connect the arm bones to the axial skeleton is the</p> | <p>clavicle</p> |
| <p>The socket found in teh scapula where the humerus articulates is called the</p> | <p>glenoid fossa</p> |
| <p>The area in the center of the humerus where the deltoid muscle attaches is called the</p> | <p>deltoid tuberosity</p> |
| <p>The coronoid fossa is a depression located between the epicondyles of the</p> | <p>humerus</p> |

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| The olcranon process is a feature of the | ulna |
| The hamate, capitate and trapezoid are different kinds of | carpals |
| The phalanges of the hand are the bones found in the | fingers |
| The three bones of the pelvis are the ilium, ischium, and the | pubis |
| Where the ilium joins the sacrum, the joint is known as the | sacroiliac joint |

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| <p>The largest and strongest bone of the human body is the</p> | <p>femur</p> |
| <p>The large opening in the pelvic bone is referred to as the</p> | <p>obturator foramen</p> |
| <p>The proper name for the kneecap bone is the</p> | <p>patella</p> |
| <p>The thin leg bone extending down the lateral portion of the leg is the</p> | <p>fibula</p> |
| <p>The larger leg bone found on the medial side of the lower leg is the</p> | <p>tibia</p> |

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| The ankle of the lower leg is formed by a series of tarsals that number | seven |
| The toe bones are known as | phalanges |
| The appendicular skeleton is composed of bones of the | upper and lower appendages |
| The cranium is composed of a series of bones | fused together at sutures |
| All the following are cranial bones except the | ethmoid bone |

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| Both the foramen magnum and the obturator foramen are | large holes in bones |
| The cheekbone is formed by the processes of the | zygomatic and temporal bones |
| The saddle shaped depression in the sphenoid bone that contains the pituitary gland is the | sella turcica |
| Both the crista galli and cribriform plates are found in the | ethmoid bone |
| Both the maxillae and the palatine bones help to form the | hard palate |

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| Scoliosis and kyphosis are conditions that result from | imporper curvature of the spine |
| The coccyx and the sacrum are names of | vertebrae |
| The atlas and axis are the names of | the first two vertebrae |
| The manubrium is the | upper bone of the sternum |
| The scapula is the bone of the pectoral girdle that contains the | acromion process and coracoid process |

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| The glenoid fossa and acetabulum are both | sockets where large bones articulate |
| The clavicle is a rod-shaped bone of the | pectoral girdle |
| The deltoid muscle attaches to the humerus at the | deltoid tuberosity |
| All the fingers have three phalanges except the | thumb, which has 2 |
| The area of the pelvis on which we sit is formed by | two ischia |

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| <p>The thin bone extending down the distal lateral portion of the leg</p> | <p>is the fibula</p> |
| <p>The instep of the foot is formed by</p> | <p>five metatarsals</p> |
| <p>The external auditory meatus is an opening in the temporal bone that leads to the inner part of the</p> | <p>ear</p> |
| <p>Many neck muscles attach to the temporal bones by means of the</p> | <p>mastoid process</p> |
| <p>The nasal cavity is divided into left and right chambers by a vertical partition called the</p> | <p>vomer bone</p> |

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|---|----------------------|
| <p>The triangular posterior bone of the pectoral girdle is called the</p> | <p>scapula</p> |
| <p>The socket in the pectoral girdle that receives the upper arm bone is the</p> | <p>glenoid fossa</p> |
| <p>The odontoid process of the _____ projects upward into the ring formed by the first vertebrae.</p> | <p>axis</p> |
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