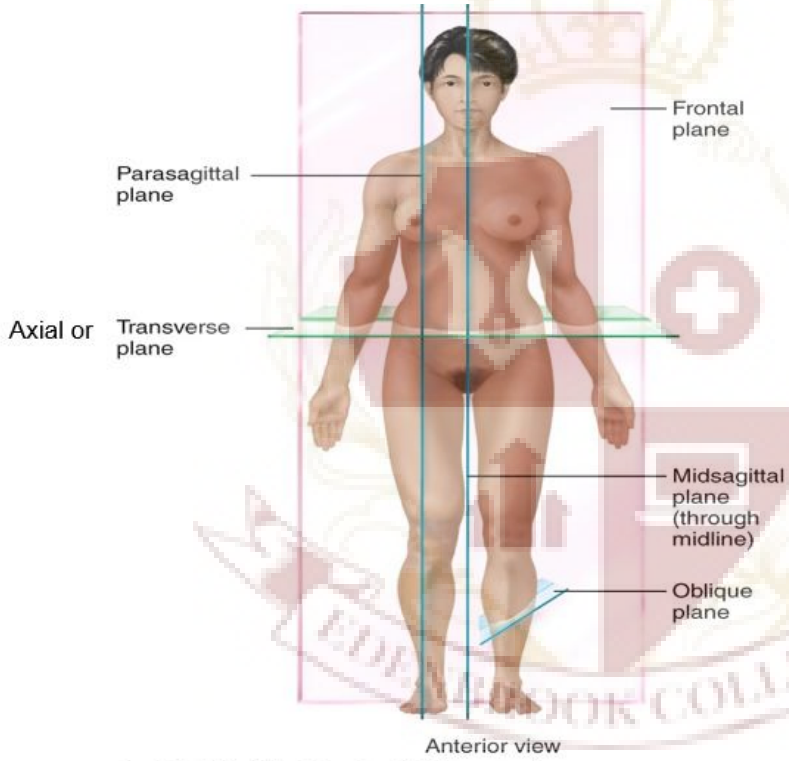
Introduction to CT Scanning Activity – Planes and Directional Terms Activity

The following activity will help you review planes and directional terminology. Using your current knowledge and course textbook, Kelley, L, & Petersen, C. (2013). *Sectional anatomy for imaging professionals* (3rd ed.). Philadelphia, PA: Elsevier., complete the questions below.

1. Identify the planes in the diagram below.



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2. Fill in the planes chart below.

Plane	Divides body into...
Axial (Transverse)	Superior and inferior portions
Sagittal (Mid and Para)	Right and left portions

Coronal	Anterior and posterior portions

3. Fill in the directional terminology chart below.

Directional Term	Definition
Superior	Above; upper part of structure
Inferior	Below; lower part of structure
Anterior (Ventral)	Toward or at the front of the body
Posterior (Dorsal)	Toward or at the back of the body
Medial	Toward or at the midline of the body
Lateral	Away from the midline of the body
Proximal	Toward the origination of a structure (ie. attachment point of a limb to the trunk)
Distal	Away from the origination of a structure
Superficial	Near the surface of the body
Deep (Visceral)	Away from the surface of the body
Intermediate	Between two structures

Ipsilateral	On the same side of the body
Contralateral	On the opposite side of the body
Cranial (Cephalic)	Toward the head
Caudal	Toward the feet
Rostral	Toward the nose
Thenar	Base of the thumb (fleshy area)
Volar	Palm of hand of sole of foot
Palmar	Palm of hand
Plantar	Sole of foot

4. Fill in the regional terminology below.

Regional Term	Definition
Antebrachial	Forearm
Antecubital	Front of elbow
Axillary	Armpit

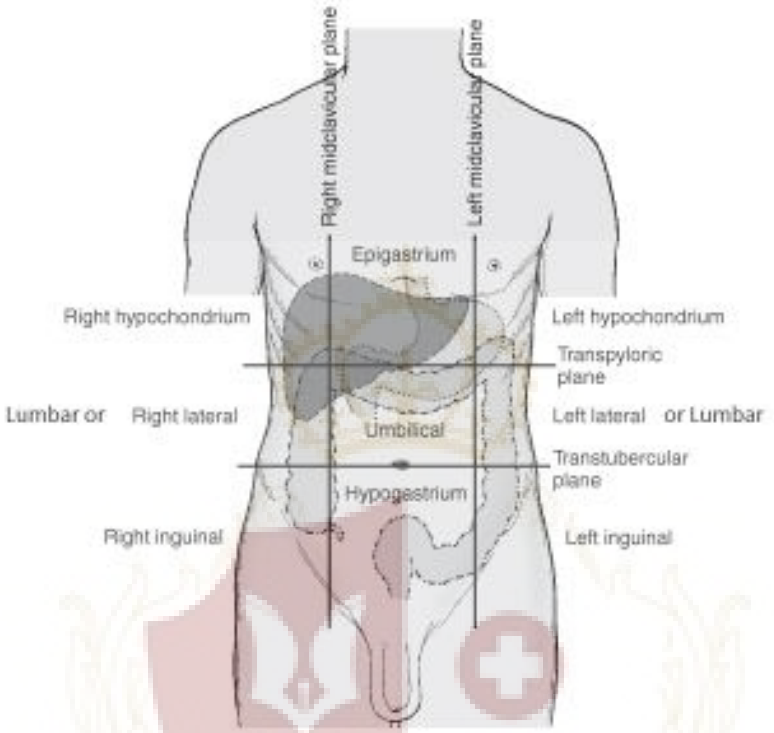
Brachial	Upper arm
Cephalic	Head
Cervical	Neck
Costal	Ribs
Flank	Fleshy area between the ribs and the ilium on the right and left sides (lumbar or lateral regions)
Gluteal	Buttock
Inguinal	Groin
Occipital	Back of head
Ophthalmic	Eye
Popliteal	Back of knee

5. Fill in the table on body cavities.

Main Body Cavity	Smaller Cavity/Organs
Dorsal	Includes the Cranial and spinal cavities • **Cranial**- Brain • **Spinal**- Spinal cord and vertebra

Ventral	Includes the thoracic and abdominal/pelvic • **Thoracic**- Mediastinum (thymus, heart, trachea, esophagus and pericardium) and pleural (lungs) • **Abdominal/Pelvic**- Abdominal (liver, gallbladder, pancreas, spleen, stomach, intestines, kidneys, and ureters) and Pelvic (rectum, bladder, reproductive system)

6. Label the 9 quadrants in the image below.



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