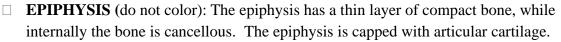
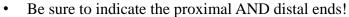
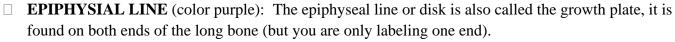
Anatomy of a Bone - Drawing

Directions:

- 1. Choose a long bone to draw.
- 2. <u>Including all details</u>, NEATLY draw your selected bone. Your drawing should take up a full 8.5x11 piece of printer paper. This means your will be HAND drawing it larger than the bone actually is. This should help allow you to show the details in your drawing that you are seeing. You might want to draw a front and a back version of your bone.
 - ☐ Write the name of your long bone at the top of your page.
 - ☐ **MARKINGS** (do not color): Each bone has its own markings, depending on which one you picked. You may need to look them up online to find the markings for your bone.
 - For extra credit, you can label one side of your bone (the side not being used for the half described below) with all the markings' names.
- 3. On one ½ of your bone (ie the top half of drawing of the front side of the bone OR the bottom half of the back side or either of the other 2) you will need to draw what you would expect to see on the inside of the bone. You may wish to reference pages 137-138 in your textbook and your notes. Clearly label and color (with the indicated color) the following terms:







□ **DIAPHYSIS** (shaft) (do not color): The diaphysis is the shaft of the long bone. It has compact bone with a central cavity.

□ **ARTICULAR CARTILAGE** (color green): The articular cartilage is found on the ends of long bones. It is smooth, slippery, and bloodless.

PERIOSTEUM (color dark blue): Periosteum is a vascular, sensitive life supporting covering for bone. It provides nutrient-rich blood for bone cells and is a source of bone-developing cells during growth or after a fracture.

SPONGY Bone and MARROW (color red): The cancellous bone is found mainly within the epiphysis and has a textured appearance where it contains red marrow.

COMPACT BONE (color pink): The compact bone is a dense bone found in the diaphysis. Its repeated pattern is arranged in concentric layers of solid bone tissue. The compact bone can be seen as the layer just underneath the periosteum.

☐ **MEDULLARY CAVITY & BONE MARROW** (color yellow): The medullary cavity of the diaphysis serves to lighten bone weight and provide space for marrow. Yellow marrow is associated with fat.

ENDOSTEUM (color light blue): The tissue that lines the medullary cavity of bone

- 4. Obtain a grading rubric from Ms. BradyLong.
- 5. Staple it to your drawing then answer the questions below it.



	5pt	4pt	3pt	2pt	1pt	0pt
	Neat, smooth	Neat but lines are not	Neat-ish but	Messy, little	Very messy,	Bone is not
S	lines, all unwanted marks	smooth or there are a few unwanted marks	lines are not smooth or there	care was used while	clearly little to no care	hand drawn on a loose
Neatness	are erased.	left.	are a few	drawing.	was used	piece of
eat	are crubea.	iort.	unwanted	arawing.	while	paper but
Ž			marks left.		drawing.	created
						using a
						computer.
	Labels are	1 or 2 labels are	Name of bone	A few labels	Bone name	No labels
	legibly PRINTED, clearly labeled,	missing but the rest are present, legibly	is missing. OR A few labels are	are present but most	is written but no parts are	present
80	spelled correctly.	PRINTED, clearly	missing but the	are missing.	labeled.	
bel	The name of	labeled, spelled	rest are present	OR Labels		
Labels	your bone is	correctly. The name	and good. OR	are illegible.		
	written in large	of your bone is	Labels are			
	font at the top of	written in large font	typed or			
	your page.	at the top of your page.	computer generated.			
		page.	Each item is	1 or 2 colors	Most of the	Bone is not
0r			colored	are not the	colors are	colored.
Color			according to its	directed	incorrect or	
			indicated color.	color or are	are missing.	
			Bone takes up a	missing. Bone is	Attempt to	Bone is
			majority of the	large but	take up most	traced from
a)			page.	there is	of the page	the sample
Size				white above	but there is	given.
• • • • • • • • • • • • • • • • • • • •				or below it.	still room on	
					wither end of	
		All 6 questions are	All 6 questions	All 6	the bone. Some	Questions
S		answered correctly	are answered	questions	questions	are not
jon Jon		with either the	correctly but the	are	are missing.	answered.
Questions		question written or in	questions are	answered.	OR Most	
Ón		echo answers.	missing and	1-3 are	answers are	
			they are not in	incorrect.	incorrect.	
			echo answers			

Answer each of the following questions:

A.	Whore	dox	zou fi	nd	110110	morrow	(ha	specific)?
л.	WILLIE	uo 1	/Ou 11	шu	VEHOW	marrow	(DC	Specificat

- B. What type of bone is arranged in concentric layers? C. Where do you find red marrow?
- C. What is the end of the bone called?
- E. Spongy bone is also called __bone.
- F. What cushions the ends of bones at their joints?