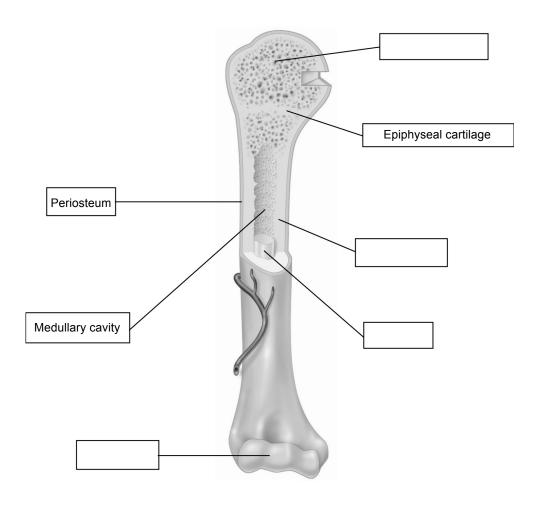
STUDYING A FRESH CALF BONE

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Goal

Locate and observe the structures of bones.

Observation criteria



1.	Identify the	missing	structures	in	the	figure	above.
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Name:	Group:	Date:
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2. Identify the characteristics that will help you to recognize the structures identified in question 1 when observed during this lab. Record your answers in the table below.

Structure	Characteristics

Materials

- gloves
- fresh calf bone sawed lengthwise
- dissecting pan
- · scalpel or knife
- · dissecting needle

- watch glass or Petri dish
- ruler
- paper towel
- · toothpicks
- · adhesive paper

Procedure

- 1. Place two layers of paper towel at the bottom of the dissecting pan.
- 2. Place the calf bone cut-side up in the dissecting pan.
- 3. Observe the exterior of the bone. Record its overall shape, the shape of the extremities and the shape of the centre.
- 4. Pierce the bone in different places with the dissecting needle. Record the name and texture of the bone tissue found.
- **5.** Detach part of the periostieum with the scalpel. Record its colour and texture.
- 6. Remove the marrow with the scalpel. Place it on the watch glass. Record its colour and texture.
- 7. Locate the epiphyseal cartilage—a dark area of the cartilage. Measure its thickness. Record the result.
- **8.** Measure the thickness of the periosteum. Record the result.
- **9.** Locate each part observed and identify it with a toothpick and adhesive paper.
- **10.** Dispose of the bone as directed by your lab instructor.
- 11. Clean up and put away materials.



Name:	Group:	Date:
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OBSERVATIONS

Record your observations in the table below. Give the table a title.

Title:

Structure	Observations
	Overall shape:
Entire bone	Form of extremities:
	Form of centre:
	Name of extremities:
Para tianua	Texture of extremities:
Bone tissue	Name of centre:
	Texture of centre:
	Colour:
Periosteum	Texture:
	Thickness:
Marray	Colour:
Marrow	Texture:
Epiphyseal cartilage	Thickness:

Reflecting on tour observations

1.	Do your observations help you to better understand the structures of bone? Explain your answer.
2.	The bone you observed belongs to what category?
3.	What is the function of cartilage?



STUDYING A FRESH CALF BONE

Name:	Group:	Date:
4. What is the function of bone marrow?		
5. Are all bones similar? Explain your answer	r.	
6. If you had observed a bull bone, would you answer	u have found epip	physeal cartilage? Explain your
7. How could you improve the protocol for thi	s lab?	

Observatory/Guide 11071-B