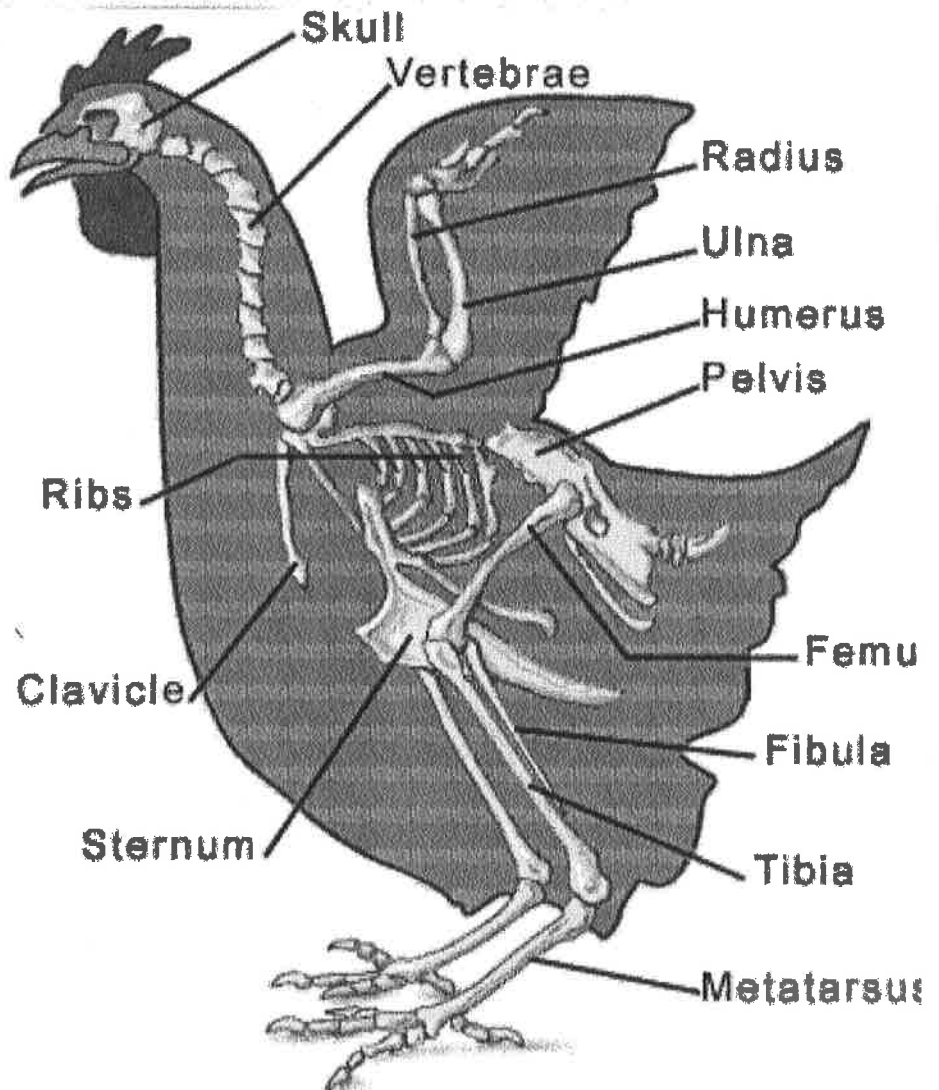
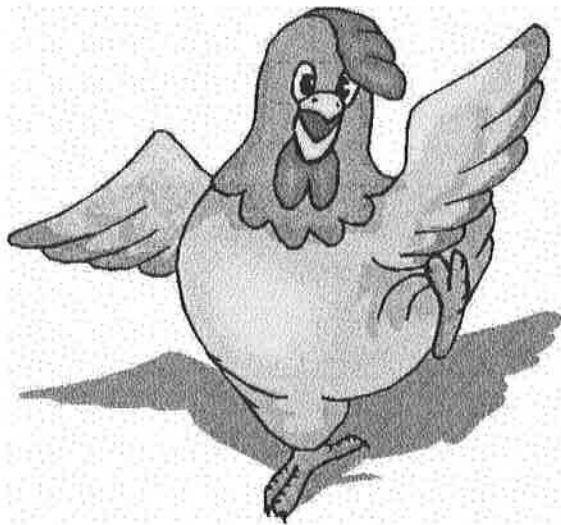
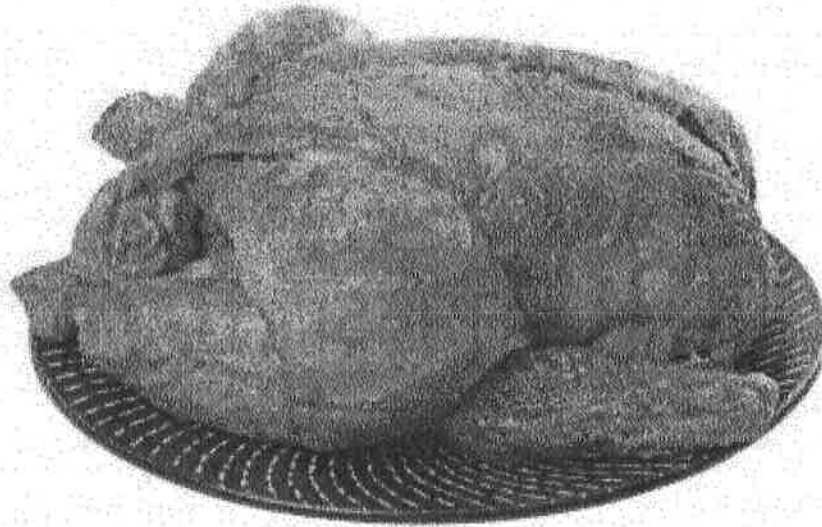


Dissecting Lunch



Dissecting Lunch
(We will eat the remains)

Names: _____

UPPER EXTREMITIES

What are a chicken's arms called?

CAREFULLY REMOVE EACH WING FROM YOUR CHICKEN – ONLY THE WINGS!
CAREFULLY REMOVE THE SKIN FROM THE CHICKEN'S WINGS.

OBSERVE THE MUSCLE OF THE UPPER AND MIDDLE WING.

Describe its appearance.

Which way do the muscle fibers run?

Can you see any individual or separate muscles?

AS BEST AS YOU CAN SEPARATE THE INDIVIDUAL MUSCLES.

What is the name of the membrane that separates individual muscles?

How many were you able to separate?

LOCATE THE AREA WHERE THE MUSCLE ATTACHES TO A BONE

What is the name of the structure that attaches the muscle to the bone?

Describe this structure.

CAREFULLY REMOVE THE MUSCLE FROM THE WING – TRY TO KEEP THE BONES CONNECTED.

How many bones are in the upper wing?

How does this compare to a human's upper arm?

How many bones are in the middle wing?

How does this compare to a human's?

Do chickens have a wrist?

If so, describe.

Do chickens have hands?

If so, describe.

If not, what do they have instead?

Do chickens have fingers?

If so, describe.

If not, what do they have instead? (Describe the distal portion of a chicken's wing)

SKETCH AND LABEL A CHICKEN WING AND A HUMAN UPPER EXTREMITY

Chicken

Human



Can you see any articular cartilage between the bones of the wing? (Use the dissecting scope if you need to) if so describe the articulating cartilage.

EAT YOUR CHICKEN WINGS IF YOU WANT.

LOWER EXTREMITIES

CAREFULLY REMOVE EACH LEGG FROM YOUR CHICKEN – ONLY THE LEGS!
CAREFULLY REMOVE THE SKIN FROM THE CHICKEN'S LEGS.

OBSERVE THE MUSCLE OF THE THIGH AND LEG.

Describe its appearance.

Which way do the muscle fibers run?

Can you see any individual or separate muscles?

AS BEST AS YOU CAN SEPARATE THE INDIVIDUAL MUSCLES.

What is the name of the membrane that separates individual muscles?

How many were you able to separate?

LOCATE THE AREA WHERE THE MUSCLE ATTACHES TO A BONE

What is the name of the structure that attaches the muscle to the bone?

Describe this structure.

LOCATE THE ARTICULATION BETWEEN THE THIGH AND THE LEG

What structures hold the bones together in the chicken's "knee"?

CAREFULLY REMOVE THE MUSCLE FROM THE LEG – TRY TO KEEP THE BONES CONNECTED.

How many bones are in the thigh?

How does this compare to a human's thigh?

How many bones are in the leg?

How does this compare to a human's leg?

OBSERVE PIECES OF THE MUSCLE UNDER BOTH THE DISSCTING AND COMPOUND MICROSCOPE. WHEN USING THE COMPOUND SCOPE BE SURE YOUR SAMPLE IS AS SMALL AS POSSIBLE

MAKE A SKETCH OF THE MUSCLE AS IT APPEARS IN THE COMPOUND MICROSCOPE

SEPARATE THE THIGH FROM THE LEG AND EXAMINE THE ARTICULAR CARTILAGE

Describe the proximal articulation of the thigh to the body of the chicken.

Describe the articular cartilage between the thigh and the leg in the chickens "knee".

How does the articular cartilage in the chickens "knee" compare to that in a human?

CUT OR BREAK THE CHICKENS THIGH BONE – OBSERVE THE INTERIOR

Describe the interior of the thighbone.

What is the substance inside of the bone called?

Is this similar in humans?

If yes, describe.

SKETCH AND LABEL A CHICKEN LOWER EXTREMITY AND A HUMAN LOWER EXTREMITY

Chicken

Human

EAT YOUR CHICKEN LEGS IF YOU WANT.

THORAX AND VERTEBRAL COLUMN

CAREFULLY REMOVE THE SKIN FROM THE CHICKEN BREAST.

Describe the size and appearance of the chicken breast.

What muscles in a human correspond to the chicken breast?

What structure separates the two muscles of the chicken breast?

What structure separates these muscles in humans?

CAREFULLY REMOVE EACH BREAST FROM THE CHICKEN – TRY TO REMOVE THEM COMPLETELY IN ONE PIECE.

Do you notice any natural divisions of the breast muscle?

Describe.

FIND YOUR CHICKENS WISHBONE – MAKE A WISH WITH SOMEONE IN YOUR GROUP

OBSERVE A PIECE OF THE BREAST MUSCLE UNDER THE DISSECTING AND COMPOUND MICROSCOPE. MAKE SURE THE SAMPLE YOU USE WITH THE COMPOUND SCOPE IS AS SMALL AS POSSIBLE.

MAKE A SKETCH OF THE MUSCLE AS IT APPEARS IN THE COMPOUND MICROSCOPE

How does the muscle of the breast differ from the muscle of the leg and thigh?

EAT YOUR CHICKEN BREAST

REMOVE ALL EXCESS TISSUE FROM THE RIB CAGE

How many ribs does the chicken have?

How does this compare to humans?

Describe the chicken's sternum.

Compare the sternum of a chicken with the sternum of a human.

REMOVE THE MUSCLE AND TISSUE FROM THE BACK OF THE CHICKEN – BE CAREFUL TO KEEP THE RIBS AND VERTEBRAL COLUMN INTACT

COUNT THE NUMBER OF OBSERVABLE VERTEBRAE IN THE CHICKEN

How many were you able to observe?

How does this compare to humans?

OBSERVE THE ARTICULATION BETWEEN THE RIBS AND VERTEBRAL COLUMN

Describe this articulation.

What is the type of vertebrae that ribs attach to in humans?

Do you observe cervical vertebrae in chickens?

Do you observe thoracic vertebrae in chickens?

Do you observe lumbar vertebrae in chickens?

Do you observe a sacrum in chickens?

Do you observe a coccyx in chickens?

CAREFULLY REMOVE THE RIBS FROM THE VERTEBRAL COLUMN – TRY TO KEEP THE VERTEBRAL COLUMN INTACT

Describe the rigidity (stiffness) of a rib.

Why is this important?

ATTEMPT TO SEPARATE A SINGLE VERTEBRAE FROM EACH SECTION OF THE VERTEBRAL COLUMN – CERVICAL, THORACIC, AND LUMBAR

What holds the vertebrae together in the vertebral column?

How does this compare to humans?

OBSERVE A SINGLE VERTEBRAE FROM EACH SECTION WITH A DISSECTING MICROSCOPE
– MAKE LABELED SKETCHES OF EACH COMPARING THEM WITH LABELED SKETCHES OF
HUMAN VERTEBRAE.

	Chicken	Human
Cervical		
Thoracic		
Lumbar		

SUMMARY QUESTIONS

The “meat” you eat from chicken is actually _____.

Where is the “white” muscle found?

Where is “dark” muscle found?

List several similarities between the chicken’s skeletal system and a human’s skeletal system.

List several similarities between the chicken’s muscular system and a human’s muscular system.

To what human bones does the wishbone correspond?

What is the function of each of the following in both humans and chickens?

Tendons –

Ligaments –

Cartilage –

