

Body Systems Unit End Project

Digestive System

Your Assignment

Create a model of the digestive system using the top diagram on p 130 in your text book.

Use Pipe Cleaners and paper to label the following parts of your model:

- Esophagus
- Stomach
- Small Intestine
- Large Intestine
- Rectum
- Liver
- Gall Bladder
- Pancreas

On the back of this sheet, answer questions 1 - 4.

1. How does each part of the digestive system aid in digestion?

a) Saliva

b) Esophagus

c) Peristalsis

d) Stomach

e) Small Intestine

f) Large Intestine

g) Liver

h) Gall Bladder

i) Pancreas

2. From the time food enters the mouth, list the order it follows in your digestive system

3. What is mechanical digestion, where does it occur?

4. What is chemical digestion, where does it occur?

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Upper Respiratory System

Your Assignment

Create a model of the upper respiratory system

Use Pipe Cleaners and paper to label the following parts of your model:

Figure 3.12 model (Upper Respiratory Model)

- Nose
- Mouth
- Trachea
- Bronchi
- Lungs

On the back of this sheet, answer questions 1 - 3.

1. How does each part of the respiratory system aid in breathing?

a) Nose and Mouth

b) Trachea

c) Bronchi

2. Why does our breathing rate increase when we exercise?

3. What is bronchitis? How could having bronchitis negatively impact a person's health?

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Your Assignment

Create a model of the lower respiratory system

Use Pipe Cleaners and paper to label the following parts of your model:

Figure 3.13 model (Lower Respiratory Model)

- Bronchiole
- Capillary
- Alveolus

Answer questions 1 - 3 on the following page

1. How does each part of the respiratory system aid in breathing?

a) Bronchioles

b) Alveolus

c) Capillaries

d) Diaphragm

2. Why does our breathing rate increase when we exercise?

3. What effect does smoking have on the alveoli? How could this negatively impact a person's health?

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Circulatory System

Your Assignment

Create a model of the circulatory system using figures 3.16 and 3.17 on page 136-137.

Use Pipe Cleaners and paper to label the following parts of your model:

- Heart
- Left Atrium
- Left Ventricle
- Aorta
- Arteries
- Capillaries in body
- Veins
- Right Atrium
- Right Ventricle

On the back of this sheet, answer questions 1 - 3.

1. What does each part of the circulatory system do?

a) Heart as a whole

b) Left Atrium

c) Left Ventricle

d) Aorta

e) Arteries

f) Capillaries

g) Veins

h) Right Atrium

i) Right Ventricle

2. Are the terms above in the same order as in your body?

3. What are the four types of cells and materials in the blood? What does each of them do?

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Excretory System

Your Assignment

Create a model of the excretory system using figure 3.24 and 3.25 on pages 141 and 142.

Use Pipe Cleaners and paper to label the following parts of your model:

- Kidneys
- Ureters
- Bladder
- Urethra
- Renal Artery
- Renal Vein

On the back of this sheet, answer questions 1 - 4.

1. What does each part of the excretory system do?

a) Kidneys

b) Ureters

c) Bladder

d) Urethra

e) Renal Artery

f) Renal Vein

g) Liver

h) Skin

i) Nephrons

2. What type of machine can people be put on in their kidneys fail?

3. If there is glucose in a person's urine, it is a sign of what?

4. If there is protein in a person's urine, it is a sign of what?

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Nervous System – Full Model

Your Assignment

Create a model of the nervous system using figure 3.32 on page 147. Also create a smaller model of a neuron using figure 3.31 on p 147.

Use Pipe Cleaners and paper to label the following parts of your model:

Full model:

- Brain
- Spinal Cord
- Cranial Nerves
- Peripheral Nerves
- Sensory Neuron
- Motor Neuron

On the back of this sheet, answer questions 1 - 3.

1. What does each part of the nervous system do?

a) Brain

b) Spinal Cord

c) Cranial Nerves

d) Peripheral Nerves

e) Sensory Neurons

f) Motor Neurons

2. Explain what happens in a reflex response

3. What two things make up the central nervous system

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Nervous System – Neuron

Your Assignment

Create a model of the nervous system using figure 3.32 on page 147.
Also create a smaller model of a neuron using figure 3.31 on p 147.

Use Pipe Cleaners and paper to label the following parts of your model:

Neuron Model:

- Cell body
- Dendrites
- Axon
- Axon terminal
- Myelin Sheath
- Synapse

On the back of this sheet, answer questions 1 - 3.

1. What does each part of the nervous system do?

g) Dendrite

h) Axon

i) Myelin Sheath

2. Can Neurons be re-generated in the body?

3. How many Neurons are in the Brain?

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The Human Body

Your Assignment

Create a model of a human body using the printed sheets in your science duo tangs.

Use Pipe Cleaners and paper to label the following parts of your model:

- Eyes
- Nose
- Mouth
- Arms
- Legs
- Feet
- Elbow
- Knee
- Stomach
- Heart (Use text)
- Lungs
- Liver
- Stomach
- Intestine
- Kidneys

On the back of this sheet, answer questions 1.

Write a sentence about what each part does.

Eyes

Nose

Mouth

Arms

Legs

Feet

Elbow

Knee

Stomach

Heart (Use text)

Lungs

Liver

Stomach

Intestine