

LIVING SYSTEMS

Pretest/Posttest

Name
Date

Is1. What organ keeps the blood moving throughout your body?

(Circle the one best answer.)

- A. blood vessels
- B. capillaries
- C. heart
- D. blood veins

Is2. What is sugar?

Is3. Scientists classify things to help identify them. Which of the following characteristics could help classify a collection of leaves?

(Mark all the correct answers.)

- color
- size
- blade shape
- venation
- mass
- leaf margin

Is4. How do water and minerals get to each cell in a plant?

(Circle the one best answer.)

- A. in xylem tubes
- B. through the roots
- C. in phloem tubes
- D. from the ground

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Is5. a. What is sap?
(Circle the one best answer.)

- A. water found in xylem tubes
- B. excess sugar made in the leaves
- C. food made in tree bark
- D. water found in phloem cells

b. Why do plants need sap?

Is6. What is the purpose of the following organs or tissues in the body?

- | | |
|-----------------------|---|
| _____ heart | a. to reach every cell in the body |
| _____ kidney | b. to pass nutrients from digested food into the blood |
| _____ lung | c. to filter waste products from the blood |
| _____ stomach | d. to carry blood from the heart to the body |
| _____ capillary | e. to exchange gases with the atmosphere |
| _____ artery | f. to carry oxygen, food, and nutrients through vessels |
| _____ blood | g. to pump blood throughout the body |
| _____ small intestine | h. to break down food with digestive juices and muscles |

Is7. Why do plants produce their own food?

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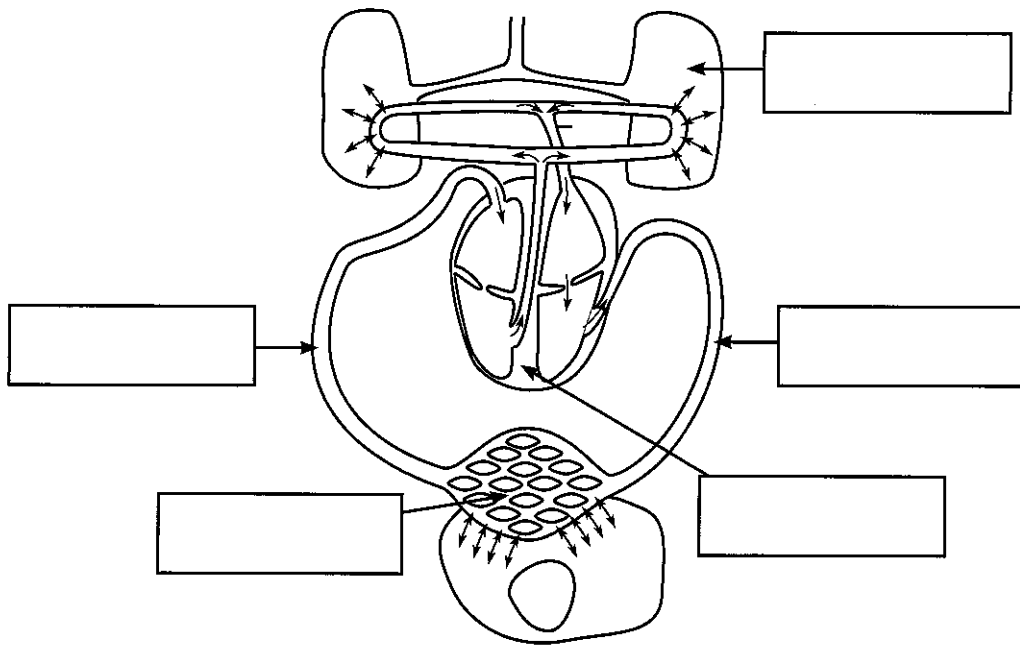
Is8. Which of the following components must be present for plants to make their own food?

(Mark all the correct answers.)

- ___ CO₂
- ___ O₂
- ___ N₂
- ___ H₂O
- ___ light

Is9. Write the names of the parts of the circulatory system shown below.

artery, capillaries, heart, lung, vein



Is10. How do your body's cells get the things they need to survive?

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Is11. Which of the following foods contain sugar?
(Mark all the correct answers.)

- water
- apples
- regular soda
- raisins
- diet soda
- frosted cereal

Is12. What is the purpose of the kidneys?
(Circle the one best answer.)

- A. to digest sugar in the blood
- B. to pump blood
- C. to filter waste from blood
- D. to remove oxygen from blood

Is13. a. What is the name of the process where plant cells break down sugar?
(Circle the one best answer.)

- A. eating
- B. cellular respiration
- C. breathing
- D. photosynthesis

b. What is the name of the process where animal cells break down sugar?
(Circle the one best answer.)

- A. eating
- B. cellular respiration
- C. breathing
- D. photosynthesis

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Is14. Hannah's mom said that the Sun is important for food. Hannah responded, "That's silly, we can't eat the Sun."

What do you think Hannah's mom meant by saying that the Sun is important for food?

Is15. Which system found in animals is similar to the vascular system in plants?
(Circle the one best answer.)

- A. circulatory system
- B. digestive system
- C. respiratory system
- D. excretory system

Is16. a. Where does the first step of digestion occur?

b. What happens in that first step of digestion?

I-CHECK

Investigation 1

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Name
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Is17. What is the purpose of the following body systems?

a. circulatory system

b. digestive system

c. respiratory system

d. excretory system

Is18. What organs are part of the excretory system?

(Mark all the correct answers.)

_____ small intestine

_____ bladder

_____ kidneys

_____ stomach

_____ arteries

I-CHECK

Investigation 1

Name _____

Date _____

Is19. Why is it important for blood to circulate through the lungs?
(Mark all the correct answers.)

- _____ to remove CO₂ from the blood
- _____ to add O₂ to the blood
- _____ to remove nitrogen from the blood
- _____ to add water to the blood
- _____ to remove nutrients from the blood

Is20. How are waste products in the blood removed from the body?

Is21. Where does most digested food enter your blood?
(Circle the one best answer.)

- A. stomach
- B. large intestine and colon
- C. kidneys
- D. small intestine

Is22. Why does your heart beat faster when you are running?
(Mark all the correct answers.)

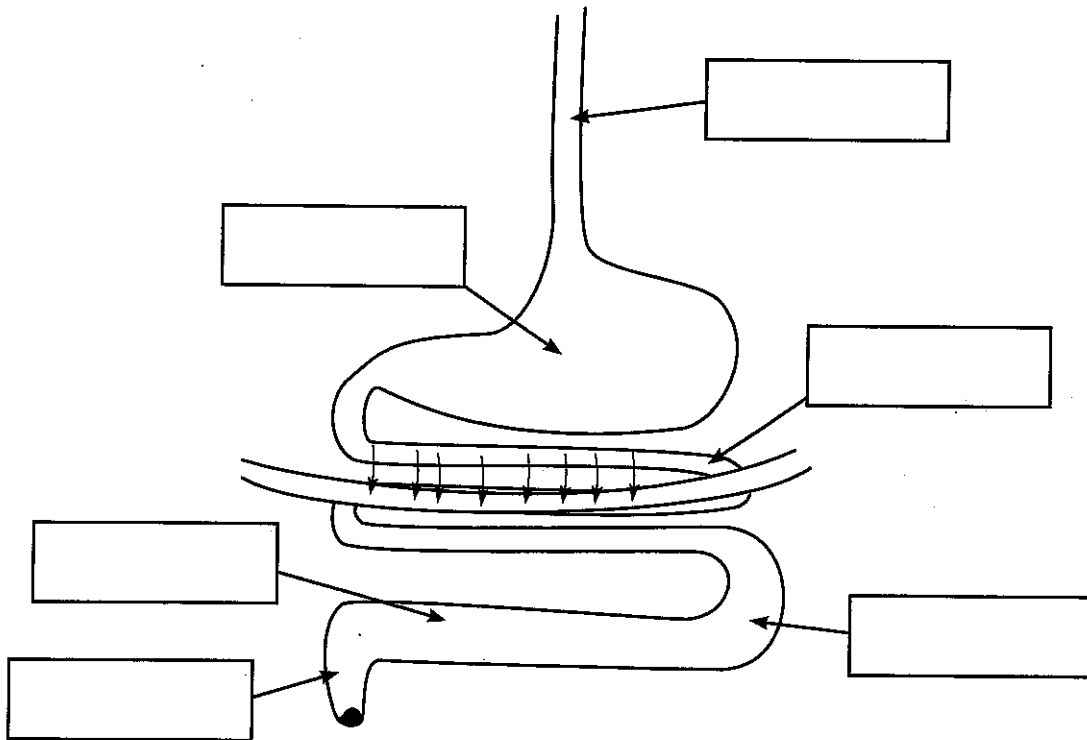
- _____ Your cells need more nutrients.
- _____ It makes you run faster.
- _____ Your body has more waste to get rid of.
- _____ It gets more oxygen to your cells.
- _____ Your brain tells it to.

I-CHECK
Investigation 1

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Is23. Why is it important to filter waste materials from blood?

Is24. Write the names of the parts of the digestive system shown below.
colon, esophagus, large intestine, rectum, small intestine, stomach



Is25. Why is blood pumped through blood vessels all over your body?
