## **ANSWER KEY**

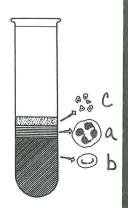
## THE BLOOD

Label the following parts on the diagram below.

- a. white blood cell
- red blood cell
- platelet

Answer the questions below.

- 1. What is the role of platelets?—Within a few seconds after an injury, platelets (cell fragments) begin the process of blood clotting.
- 2. What are sickle cells?—Red blood cells that are crescent-shaped Instead of round and concave.
- 3. Why are they Important?—They may clog small blood vessels, depriving tissues of oxygen and causing great pain—even death.

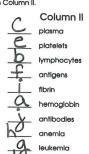


Name

Match the description in Column I with the correct term in Column II.

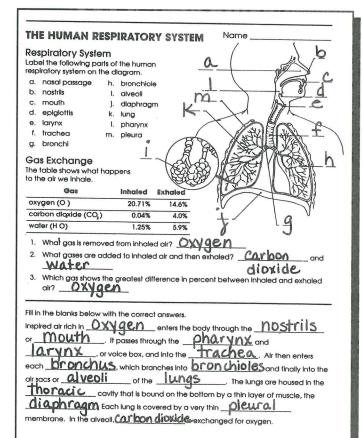
## Column I

- a) Iron containing molecule in red blood cells
- b) white blood cells which produce antibodies
- c) liquid part of the blood
- returns tissue fluid to the blood
- cell fragments involved in clotting
- f) foreign molecules in the body
- cancer of the bone marrow
- condition in which the blood cannot carry
- i) strands of protein involved in clotting
- J) react with antigens and inactivates them



lymphatic system

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**BLOOD TYPES AND TRANSFUSIONS** 

Fill In the blanks on the table below. Then answer the questions.

Blood Type	Antigens on Red Cells	Antibodies in Plasma	May Donate To	May Receive From	
Α	A	anti-B	A. AB	A.D	
В	B	anti-A	B. AB	BD	
AB	A,B	none	AB	A. B. MB. C	
0	none	anti-A	A, B, AB, D	0	

Why are individuals with blood type O considered universal donors? People with anybloodgroup may receive type Oblood.

2. Why are individuals with blood type AB considered universal recipients? They may receive types A, B, AB and O lolood.

3. Today, some people who know they must undergo surgery in the near future give their own blood at the blood bank earlier. Then, they use it during surgery. Why?
Today The blood Supply is quite sare, but some peode are
still concerned about blood that could carry the HIV N/U.S.

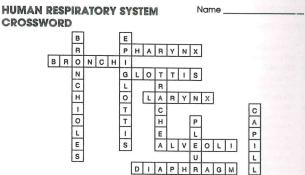
The distribution of blood types around the world varies. For example, you would find it different in Japan, and among Basque people in northern Spain.

POPULATION	A	В	AB	0
U.S. Whites	39.7%	10.6%	3.4%	46.3%
U.S. Blacks	26.5%	20.1%	4.3%	49.1%
Native Americans	30.6%	0.2%	0.00%	69.1%

On the basis of the table, answer the following questions.

- 0 In the U.S., what is the most frequent blood type?
- What is the only appulation that has no representative with one blood type? Native Americans
- What blood type is this? \_\_A6
- 5. Compare the frequency of type & blood between white and black Americans. It is almost twice as trequent among black Americans.

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Across

- Area at the back of the throat where the mouth and nasal cavity meet
- The trachea divides into these right and
- Opening to the windpipe
- Contains the vocal cords
- Tiny air sacs where the exchange of gases between air and blood takes
- 11. Flat sheet of muscle separating the chest cavity from the abdominal cavity
- Inflammation of the lining of the bronchial tubes

A Down

N

E

U

N

1

Smaller branches of the bronchl

A

s

Α

BRONCHITIS

R

- Flap of tissue which prevents food from entering windpipe during swallowing
- Tube leading from larynx to bronchl
- blood vessels surrounding the air sacs
- Moist membrane covering the lung and chest cavity wall on each side Infection of the lungs caused by
- viruses, bacteria or fungi
- Bronchial spasm resulting in decreased air movement and air trapped in alveoli

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