

Name: _____

Red Gold - The Epic Story of Blood

<http://www.pbs.org/wnet/redgold/> --- click on BLOOD JOURNEY

Write **short** descriptions for each of the following as you browse the site.

Red blood cell _____

White blood cell _____

Hemoglobin _____

Platelet _____

Plasma _____

Bone marrow _____

Stem Cell _____

Artery _____

Vein _____

Capillary _____

Aorta _____

Transfusion _____

Phase 1: The Creation of Blood

1. What are the three kinds of cells found in blood?

2. What molecule in the blood cell carries oxygen?

3. What element makes blood red? _____

4. What is the function of leukocytes? _____

5. What is the function of platelets? _____

6. Plasma is made of 90% _____

How is Blood Produced?

7. Where in the body are blood cells made? _____

8. What might cause the body to produce more blood cells?

Phase 2: The Circulatory System

9. Approximately how many liters of blood move through the circulatory system? _____

10. Name the three parts of the circulatory system:

11. _____ circulation is when blood flows through the kidneys.

12. What is the main artery that leaves the heart? _____

13. Blood moves from arteries into _____

Phase 3: Donation

14. How long does it take for your body to replace fluids lost during blood donation? _____

15. What should you do before and after donating blood?

16. What organization collects blood? _____

Testing Donated Blood

17. What are the four blood types? _____

18. Rh type can be _____ or _____

19. Name two diseases you would be tested for before donating blood:

Phase 4: Blood Banks

20. Donated blood is split into three components. What are they?

21. What type of patients might use the platelets?

22. What type of patients might use the plasma?

Phase 5: The Transfusion

23. Which blood type can receive blood from all groups?

24. What are the two most common blood types in the U.S.?
