

Circulatory and Respiratory Systems WebLab

Name _____ Hour _____

Part 1 The Respiratory System

1. _____
2. _____ carbon dioxide _____ veins
_____ arteries _____ oxygen

Part 2 Into the Lungs

3. _____

4. _____

Part 3 Oxygen Into the Blood

5. _____ 280 million molecules in each corpuscle
_____ we have 700 million
_____ allows blood to carry oxygen
_____ where oxygen passes into the blood

Part 4 Carbon Dioxide; the waste gas

6. _____
7. _____

Part 5 The Respiratory Review

8. _____

Part 6 Extreme Conditions

9. _____ 10. _____
11. _____ 12. _____

Part 7 The Human Pump

- 13 _____

Part 8 The Perpetual Pump

14. "The _____ ventricle pumps blood to the lungs and the _____ ventricle pumps blood to the rest of the body. There are four one way _____ in the heart to make sure blood flows in only one direction. The heart is actually a double pump. The _____ pump receives blood from the body and pumps it to the lungs. The _____ pump receives blood from the lungs and pumps it to the body.

The heart is the most _____ pump there is".

Part 8 (continued) The Perpetual Pump 15.

_____ number of times the heart beats in a day.

_____ number of liters of blood the heart pumps every minute.

_____ number of days for the heart to fill a gasoline truck.

_____ number of months for the heart to fill 60 tank cars.

_____ number of times the blood vessels would go around the world if laid out end to end .

continued

Part 9 How do we breathe?

16.

Part 10 How is breathing controlled?

17.

Part 11 Exchange of Gases

18. The air we breathe ends up in tiny air sacs called _____ (in the lungs). _____ passes into the blood from the lungs by _____. _____ leaves the blood and enters the lungs in the same way.

Part 12 Blood Flow Through the Heart

19. ____ deoxygenated blood
- ____ oxygenated blood
- ____ left atrium
- ____ left ventricle
- ____ right side of heart (rt. Atrium and rt. Ventricle)
- ____ hemoglobin
- ____ oxygenated blood leaves the heart
- ____ main vein which returns blood to the heart

Part 13 The Heart is a Special Muscle

20. _____

21. _____