

Across

1. tiny air sacs in the lungs

2. vessel which transports sugars down the plant

3. blood vessels that carry blood AWAY from the heart

4. type of reaction which absorbs heat energy from the surroundings (gets cold)

7. very small blood vessels that allow diffusion between the blood and tissues

9. when a cell divides into two IDENTICAL copies

11. part of the cell where protein synthesis takes place

13. the biggest artery in the body (takes blood out of the heart)

14. the place on an enzyme where it binds to the substrate

15. respiration that uses oxygen

17. what proteins are made of

18. how 'zoomed in' something is

22. when plants make glucose from carbon dioxide and water

23. when particles move from high concentration to low concentration

25. blood vessels that carry blood TOWARDS the heart

31. the bottom chambers of the heart

32. the blood vessel that brings blood back from the lungs, towards the heart.

Down

1. the type of respiration that produces lactic acid

4. the type of reaction which releases heat energy

5. the enzyme which breaks down proteins

6. vessel which transports water UP the plant

8. different tissues working together to do the same job

10. when a solution has exactly the same concentration as the contents of a cell

12. substance produced by the liver which neutralises the pH in the small intestine so enzymes can work best

16. when WATER moves from high concentration OF WATER to low concentration OF WATER

19. a storage molecule in animals - made of lots of glucose joined together

20. lots of cells working together to do the same job

21. the enzyme that breaks down fats into fatty acid and glycerol

24. the green substance found inside chloroplasts

26. when an enzyme loses it's shape

27. a storage molecule in plants - made of lots of glucose joined together

28. part of the cell where respiration takes place

29. a small group of cells that are formed from uncontrolled mitosis and can cause cancer

30. the enzyme which breaks down starch to sugars

33. moving things against a concentration gradient (requires energy)