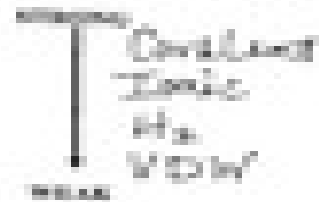


24. Show how each of the types of bonds and interactions discussed in the lecture (Show them in order from the strongest to the weakest: hydrogen bonds, van der Waals interactions, ionic bonds, covalent bonds).



25. Use absorption and extinction coefficients to explain why molecular shape is crucial in biology.
Optical density always divides by extinction coefficient and wavelength by binding to and absorption of light.

26. Write the chemical balanced equation for photosynthesis. Label the reactants and the products.



27. For the equation you just wrote, how many molecules of carbon dioxide are there? 6
 How many molecules of glucose? 1 How many atoms in glucose? 24

28. What is meant by dynamic equilibrium? Does this imply equal concentrations of each reactant and product?

"The point at which the reactants affect one another equally. Reactions continue but no net effect is present, as reactants or products."