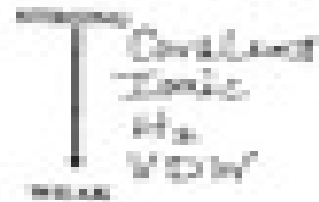


24. Show how each of the types of bonds and interactions discussed in the lecture. Show them in order from the strongest to the weakest. Hydrogen bonds, van der Waals interactions, ionic bonds, covalent bonds.



25. Use absorption and redshift as examples to explain why molecular shape is crucial in biology. *Optical absorption shape divides the wavelengths and wavelengths by binding to and releasing energy.*

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 reactions affect one another equally. Reactants combine but no net effect is present, as reactants or products.