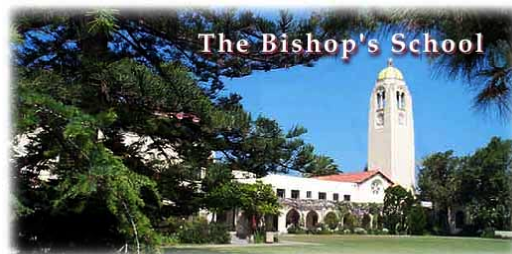


ChemQuiz



Name:

Period:

Multiple Choice (choose the *best* answer).

1. In an episode of Phineas and Ferb, the boys try to surprise their parents for their anniversary by arranging a concert performance by the band at whose concert they had fallen in love years before. What was the name of that band?
- a. 2 guyz N the Parque c. Polka, Polka, Polka e. Modern English
b. Love Händel d. Depeche Mode

Free Response.

2. For each of the following list the intermolecular interactions (Ionic, Dipole; specifically H-bond, or LD) **in order of importance**. I'll have some structures on the board.

a. NH_3

H bonds, Dipole; LD

b. $\text{C}_{18}\text{H}_{38}$

LD

c. LiCl

Ionic

d. DiFluoromethane (CH_2F_2 C is the central atom)

Dipole; LD

3. Between molecule "b" and "d" in question 1, which is more likely to be soluble in water? Explain your answer.

difluoromethane. It has a dipole, which would allow it to interact with water. In addition, the F atoms would be acceptors for hydrogen bonds with the water.

4. Between Methanol (CH_3OH) and 1-propanol ($\text{CH}_3\text{-CH}_2\text{-CH}_2\text{OH}$), which do you predict will have the higher boiling point? Explain why.

1-propanol, primarily because of the increase in size and surface area for LD forces. Both have OH for H-bonds with each other, but LD will be greater with 1-propanol