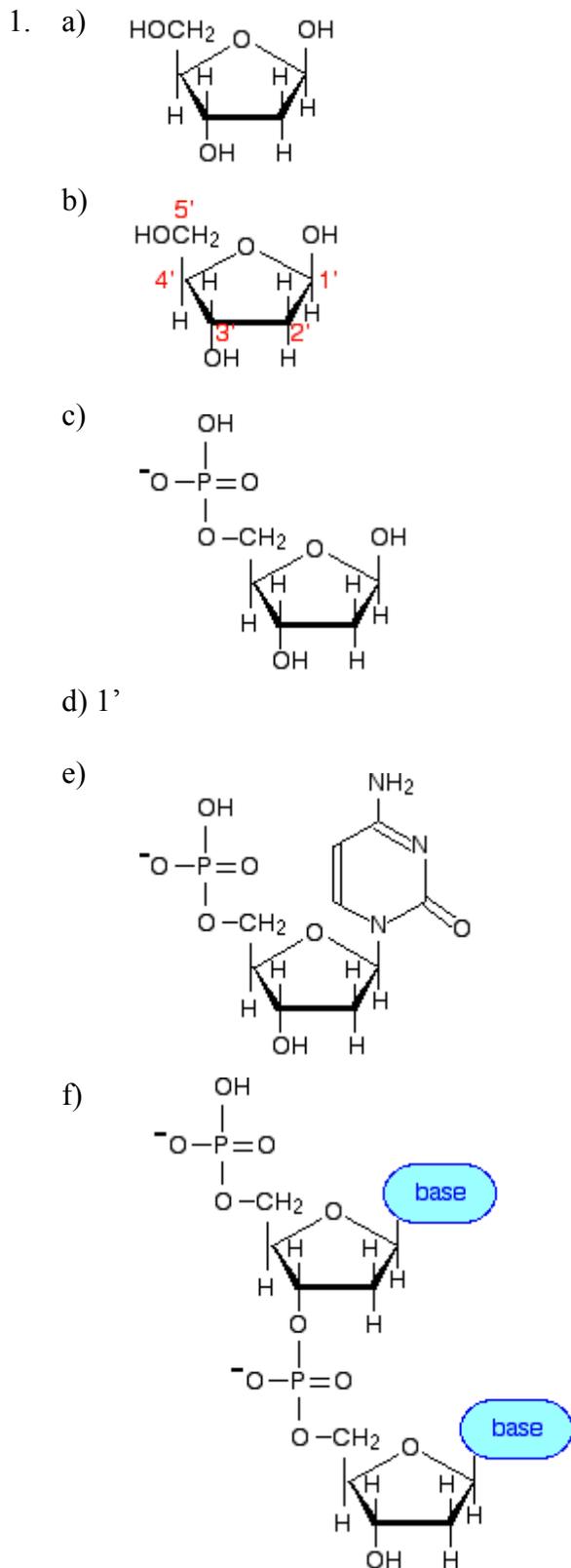


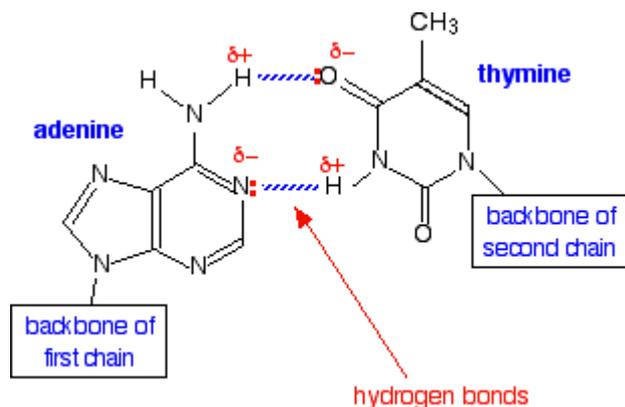
# Chemguide – answers

## DNA: STRUCTURE



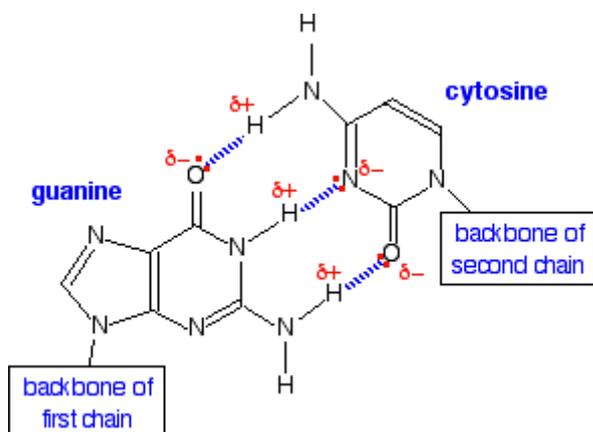
## Chemguide – answers

2. a)



If you draw the hydrogen bonds on your diagram and show the partial charges on the oxygen and the nitrogen together with their lone pairs, and the partial charges on the two hydrogens, then you don't really need to repeat this in words. If you want to be absolutely safe, then you could mention the electronegativity differences which produce these partial charges.

b)



The comment above still applies.

c) See the diagram on the right.

d) The two chains run in opposite directions. The left-hand chain runs from the 5' end at the top to the 3' end at the bottom. The right-hand chain runs from the 5' end at the bottom to the 3' end at the top. Chains are always read from the 5' to the 3' ends.

