

Name: Key

Quiz 8

For each of the nucleobases found in DNA, the atoms that are on the Watson-Crick face are highlighted in red. These are the ones that participate in base pairing and are responsible for storing information in the chemical sequence of hydrogen bond donors and acceptors (all the information required to construct you is simply a specific sequence of hydrogen bond donors and acceptors!). Label each highlighted atom as either a (i) hydrogen bond donor; (ii) hydrogen bond acceptor; or (iii) neither. Draw lines to show the hydrogen bonds you expect to find in double-helix DNA.

HD ≡ hydrogen bond donor  
HA ≡ hydrogen bond acceptor

