Instructions for the day! DO NOT KEEP THIS HANDOUT! CLASS COPY

- Jumpstart is written on the whiteboard.
 Complete it.
- Set up KCQ notes on page ______ as shown on this handout
- Target: I can describe and explain special examples of IMFs and Bulk Solids
- Take your notes using this print out of the powerpoint
- Complete your KCQ boxes
- Show the sub and get your page stamped

- Take the gold colored reading handout from the sub – it is a collection of things found from the internet, all about other examples of IMFs in the real world.
 - DO NOT KEEP THE GOLD READING HANDOUT!
- Read the handout
- On the top of page _____ list the examples that were mentioned in the handout
- Pick three that were most interesting to you and summarize each of them in 3-5 FULL SENTENCES.
 Make sure you mention how they relate to IMFs!

List of examples from golden colored reading handout from the sub

Three top choices from the handout – summarize each one in 3-5 full sentences

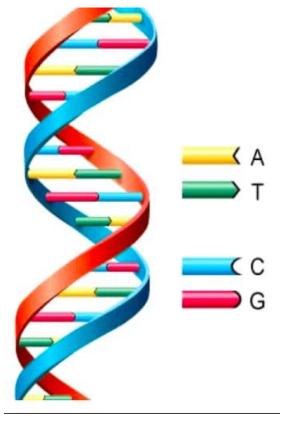
Target: I can describe and explain special examples of IMFs and Bulk Solids **Important examples** of hydrogen bonding **Proteins** DNA **Bulk Solids** Definition **Ionic Lattice** Metallic **Network Covalent** K Q

Special examples of IMFs

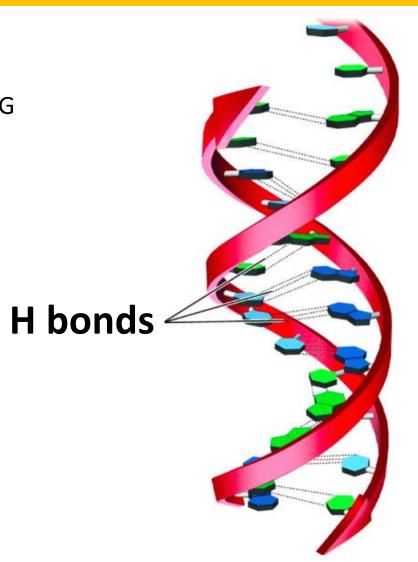
Important Example of H-Bonding

DNA Alpha helix shape-

Nucleic acids "bond" A to T and C to G



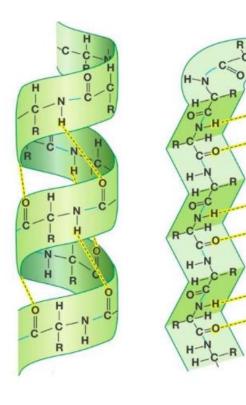




A·T base pair

G·C base pair

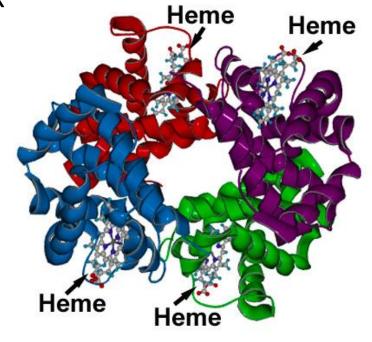
H bonding in protein shapes



Alpha helix

Beta sheets

Proteins – chain of amino acids
Secondary structures: beta sheets and alpha helix



Hemoglobin protein

Bulk Solids

Interactions in solids

Combination of:

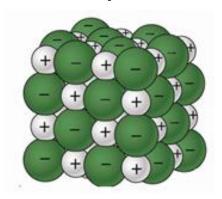
intramolecular AND intermolecular forces in a "large" or "bulk" scale

3 types

Ionic Lattice
Metallic
Network covalent

Ionic lattice - ions stack in an ordered fashion to form crystals

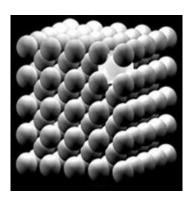
Example: NaCl





Metallic – Metal ions stack in an ordered fashion held together by the "sea of electrons" and the positive metal ions

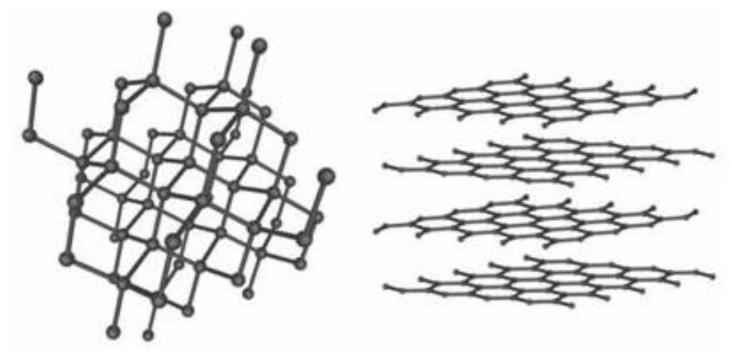
Example: Fe





Network covalent – covalently bonded atoms in a continuous network

Example: Carbon



Diamonds

graphite

Bulk solids have very high melting/boiling points because there are so many inter and intra molecular forces holding the atoms close together