

## Worksheet #2

① a) Crystalline - regular arrangement of particles  
amorphous - disorderly structure

b) ionic - ions at lattice points  
molecular - molecules at lattice points

c) molecular - molecules @ lattice points  
network - atoms at lattice points

d) metallic - metal atoms packed together  
network - atoms held together by covalent bonds.

② a) metallic - metal atoms packed together  
bonded to each other equally

b) interstitial - small atoms fill in the  
spaces between metal atoms

c) substitutional - some of the metal atoms  
are replaced by other metal atoms

d) network - atoms in a chain or network  
bonded covalently

e) molecular - solid with molecules at the  
lattice points.

f) ionic - crystal with - ions at lattice  
points and + ions in spaces

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- |                        |              |
|------------------------|--------------|
| a) molecular           | g) ionic     |
| b) network (molecular) | h) molecular |
| c) network (atomic)    | i) ionic     |
| d) molecular           | j) metallic  |
| e) metallic            | k) ionic     |
| f) molecular           | l) molecular |

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- |              |              |
|--------------|--------------|
| a) network   | f) molecular |
| b) molecular | g) Group 18  |
| c) metallic  | h) metallic  |
| d) ionic     | i) molecular |
| e) ionic     |              |