## Quiz 12.1 – Classifying Solids

Name:				
Question 1				
Classify the follow	ing solids in as many w	vays as you can:		
Quartz Crystal	Naphthalene	Aluminum Foil	Glass	Iron(III) Oxide

## Question 2

For each property or observation, write whether it indicates a solid is amorphous or crystalline

- o The atomic-scale structure is chaotic and disordered
- o The solid cleaves easily along flat planes
- The solid shows flat faces and sharp corners and edges at the macroscopic scale
- o A sharp, consistent melting point is observed
- o The solid grows soft and pliable over a temperature range before finally melting
- o The atomic-scale structure shows a regular, repeating order

# Question 3

What types of forces are present in each type of solid?

- o Metallic Solids
- o Ionic Solids
- o Covalent-Network Solids
- o Molecular Solids

### Caged Bird

#### By Maya Angelou

A free bird leaps on the back of the wind and floats downstream till the current ends and dips his wing in the orange sun rays and dares to claim the sky.

But a bird that stalks down his narrow cage can seldom see through his bars of rage his wings are clipped and his feet are tied so he opens his throat to sing.

The caged bird sings with a fearful trill of things unknown but longed for still and his tune is heard on the distant hill for the caged bird sings of freedom.

The free bird thinks of another breeze and the trade winds soft through the sighing trees and the fat worms waiting on a dawn bright lawn and he names the sky his own

But a caged bird stands on the grave of dreams his shadow shouts on a nightmare scream his wings are clipped and his feet are tied so he opens his throat to sing.

The caged bird sings with a fearful trill of things unknown but longed for still and his tune is heard on the distant hill for the caged bird sings of freedom.