

Worksheet 3.5

Bonding Models

1a. Diamond, graphite, and copper have very different properties but are made of networks of atoms. List the properties of each below in the table.

Copper	Graphite	Diamond

1b. Draw a molecular level picture and use it to describe the model(s) of bonding present in each substance.

Copper

Graphite

Diamond

1c. For each substance explain how the model of bonding you discussed explains the properties you listed for each substance.

Copper:

Diamond:

Graphite: