

Name _____



The effect of bonding on properties



board
works

Complete each statement about bonding.

Molecules do
not conduct
electricity
because...

Graphite
conducts
electricity
because...

Copper
conducts
electricity
because...

?

?

?

...there are no free
electrons to carry
a charge.

...it contains a sea
of free electrons.

...there are free
electrons between
layers of atoms

?

C

solve



Simple or giant covalent structure?



board
works

Simple covalent or a giant covalent structure?

Name	Properties	Structure	Simple or giant covalent structure?
water	<ul style="list-style-type: none"> liquid at room temperature cannot conduct electricity 		?

structure
1 of 4

simple
covalent

giant
covalent



solve



True or false?



board
works

Are these statements about bonding true or false?

1. No giant covalent structures conduct electricity.	
2. Molecular solids contain covalent bonds.	
3. Metals are held together by weak forces.	
4. Diamond contains ionic bonds.	
5. Covalent compounds are insoluble in water.	
6. Ionic compounds are insoluble in water.	

true

false

