

Name: _____

Date: _____

Atoms, ions and bonding

C G D J W S A A B V V O B P V H R U F D V X X A
X V K M H W I F Z I S Y S U C W L B F L G Z J G
J G G J P X V I T O T H X Z G U W G N N R K C N
B M K S J V P T F N A P C O X L Q Z T P A D A F
Y D F Z A T C G T S Q O F E L E C T R O N S D C
O G I E C Y Q G D J B N D J M I A Z Y S W X E A
O A Q G O A G E N F A T C M V K O S I I X A R D
B H H G V Q N P W I K F F W P Z Y K N T P L R X
E E Z R A K B Q D F D D I I N T W Y Z I R B E J
V Z W B L S A I C U W N J Q E O W T K V U K F N
I A T O E C M H C M X E O A P S V J Y E Q W S G
T Q E F N A Y O P J F U B B D P F F B U O P N D
A D T K T I A F T E G W N M C O Q L O G V V A L
G N O F B W O H N A T A C F Z I Y L U H X I R Q
E Q T H O J C E R L W T Q F F G N Q X I Y T T Z
N T T A N E C V J S C X U Q X S Z O C F T Q T L
E F H O D N A T T H G N I G I R Q E I D G T J K
Q A K C I J D T S O Z D C C T I K H M B N R L H
A P H N N E V E L O C Q R Z M Q X Y L M L X D T
P N N Y G X M X R X L E K N E Z J D G I H Z E Z
O Q B W T F S D C A H Z Y P O D E B N U A J N J
I O M W R R S F M B H C F O T M N D O R O G I E
Y Y M W C V A Z B N J S D L G G C F F T G P A G
Z H X N A X K Z C O D H U I X I S M N P X G G Y

covalent bonding

ionic bonding

transferred

electrons

negative

positive

gained

shared

atoms

ions

lost