Name

Class

Write the Noble Gas and Lewis Dot structures for the following atoms and ions:

Ca

Ne

Y

Pb

Tc

N

V

B

Fr

Bk

Cr

P

W

Bi

Dy

Se

Gd

I

Xe

Sn

**SOLUTIONS**

Write the Noble Gas and Lewis Dot structures for the following atoms and ions:

Ca **[Ar] 4s2 Ca**

Ne **[He] 2s2 2p6 Ne**

Y **[Kr] 5s2 4d1 Y**

Pb **[Xe] 6s2 5d10 4f14 6p2 Pb**

Tc **[Kr] 5s2 4d5 Tc**

N-1 **[He] 2s2 2p4 N**

V **[Ar] 4s2 3d3 V**

Br **[Ar] 4s2 3d10 4p5 Br**

Fr **[Rn] 7s1 Fr**

Bk **[Rn] 7s2 6d1 15f8 Bk**

Cr **[Ar] 4s2 3d4 Cr**

P **[Ne] 3s2 3p3 P**

W **[Xe] 6s2 5d4 4f14 W**

Bi **[Xe] 6s2 5d10 4f14 6p3 Bi**

Dy **[Xe] 6s2 5d1 4f9 Dy**

Se **[Ar] 4s2 3d10 4p4 Se**

Gd **[Xe] 6s2 5d1 4f7 Gd**

I **[Kr] 5s2 4d10 5p7 I**

Xe **[Kr] 5s2 4d10 5p6 Xe**

Sn **[Kr] 5s2 4d10 5p2 Sn**