

Name : ----- Date : -----

Score : -----

Electron Configuration Practice Worksheet

1. Write down the abbreviated ground state electron configuration for each neutral atom.

Be: _____ Ne: _____ Al: _____

N: _____ Si: _____ Cl: _____

K: _____ Br: _____ Mo: _____

In: _____ Ba: _____ Au: _____

Pb: _____ Ra: _____ Eu: _____

2. Write down the unabbreviated ground state electron configuration of the following elements.

i. Sodium _____

ii. Phosphorous _____

iii. Potassium _____

iv. Zinc _____

v. Krypton _____

vi. Zirconium _____

vii. Iodine _____

viii. Cesium _____

ix. Platinum _____

x. Francium _____

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Electron Configuration Practice Worksheet

Answers

1. Write down the abbreviated ground state electron configuration for each neutral atom.

Be: [He] 2s² Ne: [He] 2s² 2p⁶ Al: [Ne] 3s² 3p¹N: [He] 2s² 2p³ Si: [He] 3s² 3p² Cl: [He] 3s² 3p⁵K: [Ar] 4d¹ Br: [Ar] 4s² 3d² 4p⁵ Mo: [Kr] 5s¹ 4d⁵In: [Kr] 5s² 4d¹⁰ 4p¹ Ba: [Xe] 6s² Au: [Xe] 6s¹ 4f¹⁴ 5d¹⁰Pb: [Xe] 6s² 4f¹⁴ 5d¹⁰ 6p² Ra: [Rn] 7s² Eu: [Xe] 6s² 4f⁷

2. Write down the unabbreviated ground state electron configuration of the following elements.

i. Sodium 1s² 2s² 2p⁶ 3s¹ii. Phosphorous 1s² 2s² 2p⁶ 3s² 3p³iii. Potassium 1s² 2s² 2p⁶ 3s² 3p⁶ 4s¹iv. Zinc 1s² 2s² 2p⁶ 3s² 3p⁶ 4s² 3d¹⁰v. Krypton 1s² 2s² 2p⁶ 3s² 3p⁶ 4s² 3d¹⁰ 4p⁶vi. Zirconium 1s² 2s² 2p⁶ 3s² 3p⁶ 4s² 3d¹⁰ 4p⁶ 5s² 4d²vii. Iodine 1s² 2s² 2p⁶ 3s² 3p⁶ 4s² 3d¹⁰ 4p⁶ 5s² 4d¹⁰ 5p⁵viii. Cesium 1s² 2s² 2p⁶ 3s² 3p⁶ 4s² 3d¹⁰ 4p⁶ 5s² 4d¹⁰ 5p⁶ 6s¹ix. Platinum 1s² 2s² 2p⁶ 3s² 3p⁶ 4s² 3d¹⁰ 4p⁶ 5s² 4d¹⁰ 5p⁶ 6s² 4f¹⁴ 5d⁸x. Francium 1s² 2s² 2p⁶ 3s² 3p⁶ 4s² 3d¹⁰ 4p⁶ 5s² 4d¹⁰ 5p⁶ 6s² 4f¹⁴ 5d¹⁰ 6p⁶ 7s¹