

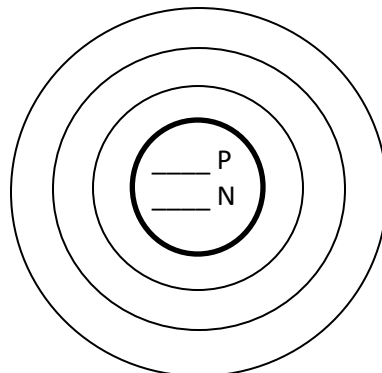
SCIENCE 10

BOHR DIAGRAMS WORKSHEET

Determine the number of protons, electrons and neutrons for each of the following, then draw the Bohr diagram.

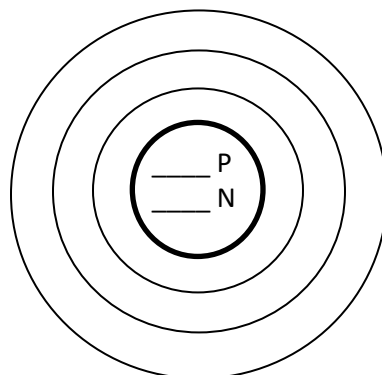
1. Oxygen Atom

protons = _____
electrons = _____
neutrons = _____ - _____ = _____



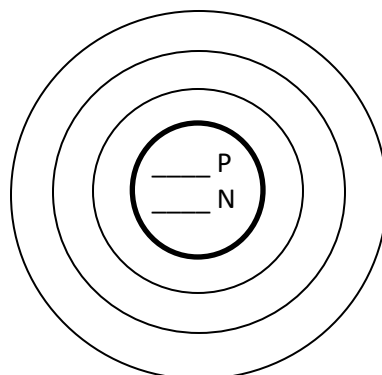
2. Argon Atom

protons = _____
electrons = _____
neutrons = _____ - _____ = _____



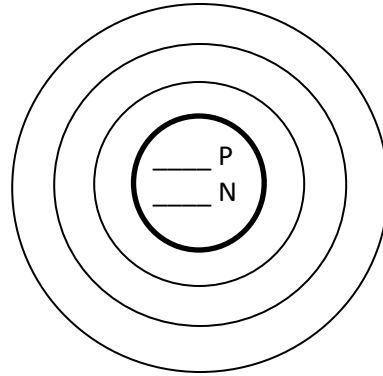
3. Oxide Ion

protons = _____
electrons = _____
neutrons = _____ - _____ = _____



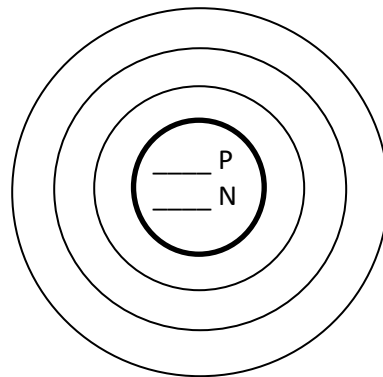
4. Potassium Ion

protons = _____
electrons = _____
neutrons = _____ - _____ = _____



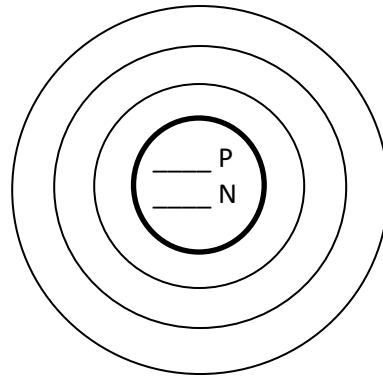
5. Carbon atom

protons = _____
electrons = _____
neutrons = _____ - _____ = _____



6. Helium atom

protons = _____
electrons = _____
neutrons = _____ - _____ = _____



7. What is the structure where the protons and neutrons are located?

8. How did Bohr determine that electrons can only be located in specific energy levels/orbits?

9. How does a Bohr diagram allow us to make predictions about how the atoms will react?

10. Why are noble gases unreactive? Explain in terms of Bohr diagrams.