

Name: _____ Date: _____ Period: _____

Bohr Model Gallery Walk - Student Question Sheet

Diagram #1 –

Draw the symbol used to represent protons in the nucleus. _____

How many protons do you count? _____

Draw the symbol used to represent electrons. _____

How many electrons do you count? _____

What is the atomic number of this element? _____

Diagram #2 –

What element does this Bohr model represent? _____

How many electrons do you count? _____

How many protons should be in the nucleus of this atom? _____

What is the atomic number of this element? _____

How many valence electrons do you count? _____

Diagram # 3 –

What do the plus signs in the nucleus represent? _____

How many electrons should be on the 1st energy level? _____

How many electrons should be on the 2nd energy level? _____

What element does this Bohr model represent? _____

What is the atomic number of this element? _____

Diagram # 4 –

What two types of particles are found in the nucleus? _____ , _____

What kind of charge do the electrons carry? _____

Based on the number of electrons you count, what element do you suspect this model represents? _____

Diagram # 5 –

How many electrons do you count in Lithium? _____

How many valence electrons do you count in Sodium? _____

What charge do the protons carry? _____

Use your periodic table. Find the element that has one less proton than Sodium.

Diagram # 6 –

What part of the atom does "Dart Z" represent? _____

How do you know? _____

What part of the atoms does "Dart W" represent? _____

How do you know? _____

Diagram # 7 –

What element does this Bohr model represent? _____

What does the "3p+" represent? _____

What does the "2e-" represent? _____

How many valence electrons are represented on this model? _____

Diagram # 8 –

What does the "P: 9" represent in this model? _____

What element does this model represent? _____

Is it a metal or a non-metal? _____

How do you know? _____

How many electrons do you count? _____

Diagram #9 –

How many valence electrons does this atom have? _____

What is the atomic number of this element? _____

Explain how you could calculate that this element has 30 neutrons in the nucleus?

Diagram # 10 –

Which element has 7 protons and 7 electrons? _____

Which element has an atomic number of 7? _____

Which element has 3 protons and 1 valence electron? _____

Which element has 13 protons and 13 electrons? _____

Which element has an atomic number of 13? _____