

Chem 7.1

Test: properties of matter, atomic structure

HW: Article and questions on electron configurations

Chem 7.2

Goals:

- Describe how electrons are arranged in orbitals
- Classify s, p and d orbitals
- Identify the number of electrons in the orbitals based on their location in the periodic table

Bellwork: Which particles are in the nucleus? Which one is outside it?

Plan:

- Introduce the idea of orbitals
- Video: electron orbitals and their patterns
- Guided practice: determining the last orbital based on the location on the periodic table

HW: Find electron configurations for the following elements: O

Chem 7.3

Goals

- Describe the octet rule and how it affects chemical reactivity
- Compare and contrast the noble gases with other main group elements
- Experimentally test the reactivity of hydrogen to other gases

Bellwork: How many electrons can fit in s, p and d orbitals? There is another orbital known as f. How many electrons do think fits there?

Plan:

Introduction: Noble gas chemistry joke... "Neon walks into a bar..."

Video: Octet rule: why some elements are more reactive

Patterns in reactivity based on the table, compare and contrast F, Cl, Br, and I

Experiment: reactivity of hydrogen

HW: Prelab: electron configuration experiment