Chemistry

Overview Lesson 1 Lesson Plan David V. Fansler Beddingfield High School

Objective – Overview of Chemistry Self-Introduction Student Introduction Discipline Discussion No Excuses - assign homework of two excuses Requirements – Scientific Calculator and Lab Notebook

- Chemistry study of the composition of matter and the changes matter undergoes
 - Benefits of chemistry
 - o Synthetic fibers, dyes in natural fibers, medicines, cleaners
 - Non-stick cooking surfaces, hair spray, nail polish and remover
 - Agriculture, fuels,
 - Branches of chemistry
 - Organic Chemistry substances containing Carbon
 - Inorganic Chemistry substances not containing Carbon
 - Analytical Chemistry composition of substances
 - Physical Chemistry theories and experiments that describe the behavior of chemicals
 - Biochemistry study of the chemistry of living organisms
 - Subdivisions often overlap
 - Why study chemistry
 - Fuel emissions ozone
 - Cancer research
 - o Pharmaceuticals
 - Agriculture

Scientific Method

- Logical Approach in solving science problems
 - Observation what do you see, hear, feel?
 - Hypothesis a proposed reason from your observation
 - Experiment testing the hypothesis
 - Theory if the hypothesis stands up to experiments, then the hypothesis becomes a theory while a theory is accepted as truth, a new experiment may disprove it
 - Scientific Law concise statement summarizing the results of many observations and experiments. Or a natural phenomenon without trying to explain it.

David V. Fansler – Beddingfield High School – Page 1 Chemistry Lesson #1 - Introduction **Teaching Chemistry**

- Some memorization of facts and figures
- Problem Solving is a large part of chemistry
- Think "aloud" with other classmates during study times