

COURSE OUTLINE FOR 8TH GRADE SCIENCE

INSTRUCTOR: JIM FRANK

e-mail: jfrank@csh.k12.ny.us

PERIODS TAUGHT: 1, 2, 4, 7, 8

GRADING CRITERIA:

- 1. tests and quizzes**
- 2. “thought” experiments – drawing conclusions – (CRITICAL THINKING)**
- 3. actual experiments – drawing conclusions**
- 4. homework:**
 - A) outline chapter**
 - B) flash card of key terms, organized in specific fashion**
 - C) concept map**
 - D) venn diagram**
 - E) chapter assessment**
 - F) essay – reaction paper**

**1. TEXTBOOK USED: PHYSICAL SCIENCE, SCIENCE EXPLORER
PRENTICE HALL, 2001 edition**

**2. REVIEW BOOK USED: (must be purchased): SCIENCE – BIG 8 REVIEW
Wagner and Fiero**

TOPICS AND CONCEPTS INCLUDE THE FOLLOWING:

- 1. CHEMICAL BUILDING BLOCKS – matter, solids, liquids, and gases, atoms and the periodic table, chemical bonds**
- 2. CHEMISTRY IN ACTION – chemical reactions, acids, bases, and solutions, Carbon chemistry, exploring materials**
- 3. MOTION, FORCES, AND ENERGY**
- 4. SOUND AND LIGHT – waves, electromagnetic spectrum**
- 5. ELECTRICITY AND MAGNETISM**
- 6. EIGHT GRADE SCIENCE ASSESSMENT REVIEW FOR STATE EXAM**

