

# Lebanon Evangelical School for Boys and Girls

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## Mid Year Exams : February 2010

Please place on this sheet the contents of your course that you will be examining in your Mid Year Exam. Details are expected. Chapter numbers, section headings and the like. A photocopy of what you send back to me will be sent to parents next week.

Teacher :Ludvik Ayzavian

Subject :Chemistry-11SE

### Introduction:Acids And Bases

- 1- Definition of Acids and Bases.
- 2- Chemical properties of Acids.
- 3- Acid-Base reactions.
- 4- Indicators- pH- Dissociation constant  $K_w$ .

### Chapter One: Soap

- 1- Saponification Reaction
- 2- Ingredients of Soap-Additives
- 3- Hard Water- Definition-Disadvantages-Measurement
- 4- structure of Soap molecule-Principle of detergency

### Chapter Two: Plastics-Synthetic Polymers

- 1- Polymers-Plastics-Homo polymers-Copolymers
- 2- General Equation Of Addition Polymerization
- 3- Thermoplastics-Thermo sets
- 4- PE-PP-PVC-PS synthesis-Nylon

### Chapter Three: Synthetic polymers and the Environment

- 1- Pollution problems Caused by synthetic polymers
- 2- Solving pollution problems:  
Recycling-Incineration-De polymerization-Biofragmentable and Photodegradable polymers

### Chapter Four:Pesticides

- 1- Classification
- 2- Toxicity  $LD_{50}$
- 3- Insecticides: Organochlorines- Organophosphates - Carbamates

- 4- Herbicides
- 5- Fungicides
- 6- Insect Resistance