

**Tripoli Evangelical School**  
**Grade 11- Humanities**  
**Chemistry curriculum**

**I- Soaps and Detergents**

- Describe the preparation of soaps.
- Types of soaps.
- Interaction of soaps with water.
- Mechanism of detergency.
- Preparation, composition and characteristics of detergents.
- Impact on environment.
- Identify pollution problems, develop a positive attitude toward environment.

**II- Synthetic Polymers**

- Definition and types of synthetic polymers.
- Naming, formulas and properties of synthetic polymers.
- Addition polymerization reactions.
- Methods used to reduce pollution problems.

**III- Pesticides**

- Classification of pesticides, toxicity, LD<sub>50</sub>, active ingredients and characteristics.
- Resistance of insects: resistance, insect resurgence, secondary pest outbreak.
- Impact on environment.
- Chemical communication among insects: pheromones and allelochemicals.
- Future strategies of pest control and better crop production.