

## **Abstract**

The thesis contains four topics from organic chemistry and biochemistry processed into the structure of chemical experiments and laboratory works. These topics are Proteins, Light and fire, Curiosities and Professions. Some experiments are accompanied by motivational text, including additional information or interesting facts. Each experiment was verified in the laboratory at the Department of Teaching & Didactics of Chemistry, Faculty of Science, Charles University in Prague. Each experiment was photographically documented. Two of them were also video taped and these videos with all pictures are on the CD accompanying this thesis.