

## **Abstract**

The diploma thesis, titled "Development of Critical Thinking in Secondary School Chemistry Teaching," presents a literary research about its key components. These include the definition of critical thinking, its significance, and a compilation of principles and methods dedicated to fostering its growth in teaching. While the definition of critical thinking is very broad, key areas include argumentation, higher-order thinking skills, and inquiry-based activities. Critical thinking is linked to both motivation and prior knowledge of a given subject, it is necessary to train it repeatedly. Based on the literary research, three comprehensive learning activities were created to facilitate the development of critical thinking within Chemistry teaching. These activities were tested in Chemistry lessons and were improved based on feedback received from the students. The finalized versions of these activities are a part of the diploma thesis.

## **Key words**

critical thinking, Chemistry teaching, activating methods, argumentation