

Nuclear magnetic resonance is an important, irreplaceable and very common method used in chemistry and medicine. From this perspective, it is highly desirable to implement NMR spectroscopy into high school education. But unfortunately there is not enough material in the Czech language, which would correspond to a high school student's level of knowledge.

This thesis looks at creating support materials for teaching NMR spectroscopy and the possibilities of its implementation into high school education. For this purpose, following materials were prepared: an educational text, tests and a database of measured spectra (appendix on CD). Materials were tested in the form of a directed interview and then modified according to the results. This testing confirmed that the text is clear, motivating, and that this topic would be appreciated by both students and teachers.

The materials will be available for teachers and high school students at the educational portal studiumchemie.cz.