

Diploma thesis is focused on design of a didactic test verifying knowledge and skills of secondary school students in the field of mechanics. The test is prepared for one selected topic, solid body mechanics. Two equally difficult alternatives were prepared. Verification of the test took place on students of two secondary schools in Mladá Boleslav: fifth year of eight-year programmes and first year of four-year programmes (16 year old students in both cases). The thesis also contains overview of the theory of didactic tests design and processing and the development of didactic testing both worldwide and in Czech Republic.