

The diploma thesis was focused on preparation of a new educational material in a form of internet webpage and supplemental files (PowerPoint presentation, pdf files, animations and pictures) targeted to equilibrium states in chemistry. The material can be considered to be a supplement to current textbooks and other educational materials to cover the content of contemporary curricular documents in the Czech Republic, especially Framework educational programme for secondary school education (RVP-G) and Catalogue of requirements for school-leaving exam. The thesis also contains an evaluation of selected sources like textbooks and internet webpages focused on mentioned themes. On the basis of evaluation, the subthemes of chemical equilibrium, phase equilibrium and red-ox equilibrium were selected as the content of the prepared educational webpages. The prepared educational materials were prepared with regard to learn the subject matter of equilibrium states theme using understandable form. Another important point of the prepared educational materials is a motivation of students; hence the materials comprise variety of originally prepared motivation elements as interactive animations, images and recorded experiments. The web page presentation also includes other supplemental materials for teachers to download as PowerPoint presentation, animation files, etc.