This research aimed to describe: 1) condition of the existing teaching materials and the potential of teaching materials to be developed, 2) effectiveness, 3) efficiency, and 4) attractiveness. Research approach used research and development. This research was conducted at senior high school 13 Bandar Lampung, Senior high school 15 Bandar Lampung and senior high school 16 Bandar Lampung. Collection of data through observation, unstructured interviews, questionnaires and tests. Data were analyzed by descriptif statistics and n-Gain. The conclusion of this research are: 1) conditions of learning are still teacher centered, characteristics of student at the age of 15-17 years are less motivated to learn use learning resources textbooks. So the potential for development of teaching materials in modules. 2) Products modules effective with category index gain medium, average value of n-Gain experimental class 0.47 > control class 0.39. 3) The use of module efficient in learning, with efficiency values of 1.3. 4) The attractiveness of module in the category of attractive (88.21%).

**Keywords:** teaching materials, modules, chemical equilibrium