

Critical Thinking Skills in Activities Included in 11th Grade Chemistry Textbook - An Analytical Study

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Abstract : The current study aimed to identify critical thinking skills and its level of inclusion in all the activities (44) listed in 11th grade chemistry textbooks. The researcher used a descriptive analytical method by using the content analyzing design. An instrument was created for this purpose and tested for validity and reliability. Results showed that, all activities included critical thinking skills with different ratios as follow: conclusion skill was (87.72%), induction skill was (80.90%), interpretation skill was (77.72%), discussion of evaluation skill was (68.64%), and assumption skill was (50.45%). Also, the study results indicated that, the level of inclusion of critical thinking skills in the scientific activities was more explicit than implicit with same order as the level of inclusions. In the light of the study's results, the researcher provided some recommendations including the need to provide and redistribute critical thinking skills in the activities listed the chemistry textbook, as well as the need to pay attention to the inclusion level of these skills more implicitly in the activities.

Keywords : critical thinking skills, chemistry textbooks, scientific activities

Conference Title : ICSRD 2020 : International Conference on Scientific Research and Development

Conference Location : Chicago, United States

Conference Dates : December 12-13, 2020