

Abstract

The issue of transgenic crops and the third world is mostly neglected in secondary education. In view of the fact that it is an interesting topic that gains greater importance worldwide, it would deserve the place in secondary education. It is not necessary to submit information about this topic only in the text form to students but teaching methods that force the students to gain information actively, can be used.

Text for teachers was created in diploma thesis. The text could serve as a source of information for teachers in preparing for the lesson about this topic. Then test for students was created. The test consists of tasks that are inspired by the PISA. Students have to gain information actively from the texts in the tasks to solve the tasks correctly.

The test consists of three thematic areas (transgenic crops, golden rice, vaccination and edible vaccines) and 16 questions (31 including the sub-questions). The test was verified on a sample of 82 grammar school students at the age of 16 to 19 years. The students were of the four classes in four grammar schools. The students recorded their answers in a data sheet. The data sheet included additional questions that sought the views and attitudes of students towards texts and questions in the test. The teachers completed the questionnaire. The teachers filled in the questionnaire the average success rate that they expected for each question.

The results of students in the test were statistically processed. The total average success rate of students in the test was calculated. The average success rate of students was calculated for each question too. The teachers correctly estimated average success rate at less than half of the questions (including the sub-questions). The dependence wasn't demonstrated between average success rate for each question and subjective evaluation of difficulty for each question. The students had to use specific skills when answering the questions in the test. The highest average success rate was in questions with skill "collect information from text materials". Information in texts contained in the test was new and interesting for students.

Key words: transgenic crops, third world, secondary education, test, PISA, golden rice, edible vaccines, average success rate, skills