

## THE ANALYSIS OF THE ARGUMENTS DEVELOPED BY SCIENCE 7th GRADE STUDENTS ABOUT SENSE OF SIGHT

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### Abstract

The main purpose of science education is to educate people who can think like a scientist and make suggestions on the basis of reason in order to understand the life in an easier way by researching and questioning. In this context, the argumentation that is defined as the justification of the thesis through material evidences is considered as new process in the natural science education, recently. The objective of the study is to analyse the arguments of the 7<sup>th</sup> grade students within the frame of an activity related with eyesight, with reference to Toulmin Argumentation Model. The study was involved by 28 students in seventh grade in a secondary school in Samsun. The preparation activities for students to familiar with the argument elements of the Toulmin Argumentation Model were performed prior to the activities. The students were divided into five groups and they were enabled firstly to answer the questions on eyesight activity individually, then with the group and then argue with the class where the data is recorded. When the written and oral arguments of the students are examined, it is seen that many of them had difficulties to find scientific reasons and supports for their claims. On the other hand, few students could produce some scientific reasons to disprove the reasons of other students during the discussions.

**Keywords:** Argumentation, Science Teaching, Sense of Sight.