**Introduction:**

The importance of discussing scientific literacy in the curricula of science in prep stage increases with our communities' need to cope with the scientific and technological revolution in the 21st century. This is due to students' lack of accurate scientific feedback enabling them to explain natural phenomena.

The need to reconsider curricula of science offered to all stages of education, to meet the requirements of developing scientific literacy dimensions, was confirmed in the recommendations of many recent studies of scientific education.

One of the most important elements of scientific literacy that have to be included in science curricula are inquiry skills and scientific values. These elements enable the students to think in the way scientists think and follow their steps in solving problems in a scientific manner.

However, with the implemented development in curricula of science in prep stage, the researcher noticed the weakness of scientific inquiry skills among students of the first prep stage, through his work as a science teacher for this stage during the first year of applying the new curricula in 2008/2009.