



N° 167126-LLP-1-2009-1-IT-KA1-KA1ECETB

Barriers to the Study of Scientific Subjects and Level of Knowledge of Basic Chemistry

ADULT LEARNERS' CASE STUDY

Adult Learner's Case Study N.: 1

Name: BB, Male, Age 40, Athens area, Secondary school teacher of Classics

Description of the Case Study

Reasons of the decision not to continue studying scientific subjects: Orientation for classical studies

Main difficulties in scientific subject learning at school: Theory did not have any connection with practice neither in the school textbooks nor in the instruction.

Self evaluation of knowledge of chemistry: Poor to fair

Evaluation of the scientific information provided by the media: In most cases, scientific information provided by the media is comprehensible. However, when it includes more scientific terms the difficulty is increased and there is a need to resort to friend-scientists for clarification.

Perception of the word "Chemical": The word "Chemical" is associated with something that is made in a lab and it is "pure", in contradiction to the increased complexity of the issues examined by the social sciences.

Result of the basic chemistry test: The weight of solution is between 100 and 105 grams, marginal more of 100, owing to dissolution. Moreover, the chemistry involves the change.

The characteristic scent is made of material particles, but this perception cannot be explained.

As an example of a pure substance in the solid state, he referred to the salt, sodium chloride, or to sulphur, or to nitric fertilizers.

As an example of a pure substance in the liquid state, he referred to mercury.

As an example of a pure substance in the gaseous state, he referred to carbon monoxide, or to carbon dioxide.



