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Analyzing the Relationships between the Teen-agers' Self-image and Their Preferences for Science Disciplines Contents

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Abstract

Vocational orientation of adolescents is a challenge not only for teachers and parents, but especially for teenagers. Often the identity crisis specific to this age can be an obstacle in building a school and later a professional path appropriated for student personality. In this sense, actions taken to address the knowledge and self-knowledge of adolescents' self-image become indispensable. In addition, these approaches facilitate the identification of potentials skills and attitudes that can facilitate the development of scientific skills and increase the efficiency of learning. The paper presents a micro research conducted in order to identify relationships between the teen-agers' self-image and their preference for the contents of the scientific disciplines of secondary education. The research sample consisted of 146 students aged between 14 and 19, who followed PROFILES type Science classes (Physics, Chemistry, Biology) in several schools in Dambovită County, Romania. The research hypotheses were: H1 Positive self-image correlates with increased preference for questioning and ambiguous issues; H2 Positive self-image influences in lesser extent students interest's for certain contents. As research methods, there were used questionnaire for identifying students' interests on certain contents, and self-assessment test for self-image. The results are discussed in the perspective of scientific literacy skills development.

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1. Research Context

The study of Science and hence scientific literacy are considered a challenge rather difficult for most nowadays teenagers, especially because quite abstract level of information (theories) and complexity of analysis and calculation skills involved in resolving any problems or issues of Physics, Chemistry and Biology. As a proper example, in the last three years, in Romania and other twenty European countries, the PROFILES project was implemented with success, being a meeting-point for Science teachers and European educators and researchers.

One of the main objectives of the FP7 European Research Project “*PROFILES - Professional Reflection-Oriented Focus on Inquiry-based Learning and Education through Science*” (code: 5.2.2.1-SiS-2010-2.2.1-266589), was to develop a continuous professional development program with the view to enhance the teachers’ scientific and pedagogical skills in order to promote *Inquiry-Based Science Education (IBSE)* through raising their self-efficacy to take ownership of more effective ways of teaching students, supported by stakeholders (PROFILES Consortium, 2010).

By making observations on the data obtained through the project, on the ideal type of science class, a question arose regarding whether the specific study content preferences are influenced by the students’ self-image, which led to the shaping of the present research.

2. Theoretical aspects

The teenage years are a period of demanding somatic and psychosocial development, and also with quite demanding social expectations from families, peers and school. Along with the development of cognitive skills and the socio-cultural competences, among the major objectives of the high-school educational level, there can be found the shaping of abilities for analyzing acquired skills and competences - for professional orientation purpose - , and the developing of self-confidence and positive image of personal success (Bocos & Jucan, 2008). Those two last objectives are achieved through activities that allow adolescents to self-knowledge either within hours specially designed for this purpose - the tutoring or counseling classes -, either in the classes from different disciplines that pupils are studying (if those classes address teaching and learning from a humanistic, or constructivist perspective). Moreover, a better self-knowledge by adolescents may be an important aspect of academic success, through allowing capitalization of strengths and overcoming or compensation of weaknesses. Also, the self-esteem caused by a positive self-image favors showing respect from others. Thus, in the context of educational relationships of respect and appreciation, learning and self-image reinforce each other, as long as the students accept each other as individuals. (Joita, 2008). In addition, conflict resolution is easy to achieve when young people involved in the conflict can put out the best in them without devaluing the others, are not blaming themselves and do not blame others, thus building good peers relationships. Also a positive self-image can act as a motivator in academic activities by activating perceived self-efficacy mechanism. (Lent, Brown, & Larkin, 1986).

Self-knowledge, defined as the process of exploration and structure of someone own characteristics (skills, emotions, motivations, attitudes, beliefs, and adaptive defence mechanisms, etc.), having as result the self-image, is an important concern for teenagers that crosses an identity crisis. That because self-knowledge and self-acceptance are fundamental variables in functioning and optimum adaptation to the social environment and in maintaining mental and emotional health. The efforts of self-knowledge has the effect of not only the awareness of some features of him/herself, that is awareness of self-image, but also raise the awareness of emotions, attitudes that the teen has for itself, namely self-esteem. Although both psychological concepts have positive or negative effects on learning activities, the most were investigated relationships between self-esteem and school efficiency. This, probably because self-esteem and self-image are intertwined, and positive self-esteem is a motivating factor that influences not only academic achievement, but also children school integration.

Another “advantage” of self-knowledge is that through its steps, along with mutual understanding in the peers group, is facilitated the building of a coherent self-identity, which allows the building of a vocational identity. If self-identity gives individual a sense of unity, continuity and consistency of his being, “professional (vocational) identity gives individual the feeling of coherence, first in the upper secondary education - which involves a first vocational orientation -, and later in the world of work, and finally in context his professional career.” (Negovan, 2004, p.12). Combining aspects of knowledge of own interests, values, abilities and skills on the one hand, with a preference for a certain type of activity, interaction styles and work environments, on the other hand, vocational

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