

Suggestions to Teachers (Sibylla Merian and Cocoons)

Expected results

After the lesson, the students are expected to:

1. Describe the stages of the metamorphosis of insects.
2. Write a text, describing how silk is produced, based on the suggested resources or on the research in the web.
3. Make inquiry in the web and write a text for the history of silk production from the ancient years until today.
4. Underline in the text the innovative contribution of the Sibylla's book for the study of the insects in correlation with other similar books of this time.
5. Underline in the texts the lesson activities, the factors which contributed to the creation Sibylla's work and discuss them.
6. Underline in the texts of the lesson activities, which concern the role of women in the research and the science in the Baroque Era.
7. Write the reasons which contributed to the progress of the biological studies in the Baroque Era.
8. Describe the characteristics of Nature of Science, based on the narration as well as the lesson activities, according to the McComas's list.
9. Research the possibilities of professional employment for the young people in your country, which concern the production and the trade of silk.

About the activities of students

The proposed students' activities are indicative and they aim at the accomplishment of the above expected outcomes. Moreover, the teacher may choose some of them for the teaching process in relation to its aims, the needs of students and the available time. Finally, she/he can create her/his own activities.

About the emergence of the characteristics of science in the narration, these characteristics are quoted in the website, comprehensively (in classification of the stories by NOS).

About the locating of the characteristics of Nature of Science in the proposed activities, indicatively, we can quote the following:

A) The activity 2 concerns the characteristic of Nature of Science: "Science demands and relies on empirical evidence".

B) The activity 5 concerns the characteristics of Nature of Science: a) "Scientific knowledge is tentative but durable", b) "There are historical, cultural, and social influences on science", c)

“Science has a subjective element”, d) “Science demands and relies on empirical evidence” and e) “Science is a highly creative endeavor”.

C) The activity 6 concerns the characteristic of Nature of Science: “There are historical, cultural, and social influences on science”.

D) The activity 7 concerns the characteristics of Nature of Science which are quoted in the above activities 2, 5 and 6.

E) The activity 8 concerns mainly the characteristics: a) “Science and technology impact each other, but they are not the same”, b) “Science demands and relies on empirical evidence” and c) “Science is a highly creative endeavor”.

Suggestions to Teachers (Sibylla Merian and Cocoons) were written by Aikaterini Rizaki and Panagiotis Kokkotas with the support by the European Commission (Project 518094-LLP-1-2011-1-GR-COMENIUS-CMP) and the NKUA of Greece. This publication reflects the views only of the authors, and the Commission cannot be held responsible for any use which may be made of the information contained there in.