E-SOC

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E-STEAM ON THE CLOUD

EN (UJI)

Mathematics Test Model. Upper secondary level. Includes a self-report evaluation of students' self-confidence about their STEAM performance

- Intermediate: Application, Analysis
- Teaching preparation
- Original Materials

TYPE OF THE ACTIVITY	Test
DURATION	Variable. Each problem could require 15 minutes approximately.
TEACHING AID	Computer, video projector, or a blackboard for solving the problems.
SUMMARY	This test is resource for Math teachers' for promoting equal learning experiences and evaluations reducing gender stereotypes in STEAM. The test consist in six mathematic problems, two for each of the following topics: matrices, geometry in space and probability. In every problem there is a self-evaluation.
TEACHING PRACTICE (STEP BY STEP)	This material helps teachers in the promotion of gender equality in their classrooms. The test aims to foster students' self-confidence about their STEAM performance. After each one of the topics has been explained in class, you should hand in the problem which corresponds to the topic. To evaluate the exercises, teachers should blind students' identities before. The students should be identified utilising a code. After coding the identities on each exercise, a peer evaluation should be carried out among the students. To evaluate the students' degree of confidence after completing the topic exercises or activities they should rate how sure they are about correctly solving the exercise. The must use the evaluation scale given in the problem to solve. After rating their self - confidence students will correct the exercise. The parts of the activity that were well carried out in the exercise should be emphasised. When the evaluation process has finished, each student will receive their exercise. Then, the teacher should promote a group reflection on whether their self-perception of the degree of confidence corresponds to their success in carrying out the said activity. The teacher should conclude that boys and girls are equally talented for STEAM and that self-beliefs about one's performance can positively or negatively affect the results. Results do not depend only on talent, but they also depend on how we think we will perform and how much we prepare for each task.
SOURCE	Research Group Género, Salud y Trabajo - Universitat Jaume I. Author: Machin-Rincón, Laritza. Research Group NFN - Neuropsicología y Neuroimagen Funcional - Universitat Jaume I. Author: Ferrando Esteve, Lara