Animation and storytelling as means to enhance and stimulate the learning of Chemistry in the classroom environment

Gilbert A. Handal, M.D., FAAP
Professor/Regional Chair, Department of Pediatrics, Texas Tech University Health Sciences Center
4800 Alberta, El Paso, Texas, 79905 Tel: (915) 545-6791, Fax: (915) 545-6976,
e-mail:pedegah@ttuhsc.edu

Marie A. Leiner, MA
Special Projects Director, Department of Pediatrics, Texas Tech University Health Sciences Center
4800 Alberta, El Paso, Texas, 79905 Tel: (915) 545-6829, Fax: (915) 545-6677,
e-mail:pedemail@ttuhsc.edu

Carlos González, MA
Secretary General Universidad Autónoma de Ciudad Juárez, Lopez Mateos # 20, Circuito Pronaf,
Ciudad Juárez, Chih. México, Tel: (16) 11-1064, Fax: (16) 111063, e-mail:cglz@uacj.mx

Erika Rogel, LDG
Coordinator International Program of Animation Universidad Autónoma de Ciudad Juárez,
Lopez Mateos # 20, Circuito Pronaf, Ciudad Juárez, Chih. México, Tel: (16) 11-5989, Fax: (16) 111063

Animation and storytelling are two effective teaching tools that have been long overlooked. By combining the two, a powerful educational tool is created. This combination will make important contributions to the educators’ efforts while teaching complex subjects such as chemistry. The utilization of this tool does not replace the educator’s capacity to instruct but only enhances and broadens her teaching capacities.

In this research project, an animated video containing a storytelling format uses a main character that is initially depicted as disliking chemistry. The young investigator then evolves to take the learning experience as a challenge. Students are captivated by the animation and storytelling of the video and are able to relate to the main character. Significant differences were found in the comprehension levels of students when using animation and storytelling as a teaching tool in comparison to literary teaching tools.