

# STEM Innovative Lessons Showcase



## Showcase 1:

The Power of Interactive Books

### Mireille Tannous

Science Teacher, AHS DXB, Dubai, UAE.

#### Bio

Mireille Tannous is a Chemistry teacher with 7 years full-time teaching experience. She holds both a Bachelor's and a Master's degree in Chemistry and is currently working towards acquiring another Master's degree in Interactive Educational Technologies at Hamdan University. She is a staff member AHS in Dubai, where she has been working as a Chemistry teacher since August 2010.

#### Abstract

Rapid advancement of technology has revolutionized the creation and consumption of content in the learning environment. Use of iBooks is a notable technology that has widely embraced most contemporary learning environment to encourage learners to be fully participating in the learning process. The use of iBooks facilitates learner's engagement through its rich interactive contents. The aim of this showcase is to focus on the interactive tools that help create an iBook and how they function.



## Showcase 3:

Videogame Quiz

### Derul Alim

Science Teacher, AHS Boys Campus, Abu Dhabi, UAE

#### Bio

Derul Alim is a member of the Science department at AHS Abu Dhabi male campus. He is currently teaching Physics and has previously taught Physics in the UK at schools such as Kings College and Guildford High School. Derul is highly interested in Electronics and Programming and often integrates technology into his lessons.

#### Abstract

Rather than giving a paper-based quiz to your class, why not add your questions into this easy-to-use online software. The software will automatically turn your questions into an interactive arcade game. This activity is quick to plan and design and provides maximum fun for students who will be motivated to compete for the highest score on the scoreboard.



## Showcase 5:

Incorporating Technology into Literacy

### Gabriel Keresztes

English Teacher, AHS Fujairah, UAE

#### Bio

Gabriel is a dynamic teacher and cultural trainer with over 10 years of experience. If you were to ask his friends to define him in one word, they would say "adaptive". He has a double major in Biology and Psychology Neuroscience and Cognition as well as a degree in Education. His hobby for film allowed him to develop strategies for incorporating it into the classroom. He is a firm believer in simplified education.

#### Abstract

A Novel in an Hour (Tribes Strategies USA) is a creative and energizing way of simplifying any course material and allowing students to comprehend a lot in a little. You will be able to see a showcase of this technique and how it can be mixed with technology (using the iPad, iMovie etc.) and applied to any subject. To simplify a text (can be used for a science course).



## Showcase 2:

STEM Integration through ICT Project

### Anas Ahmed

ICT Teacher, AHS Fujairah, UAE.

#### Bio

Anas Ahmed has extensive experience from working within the IT industry and the educational sector. He holds a PGCE teaching qualification from King's College London and a BSc(hons) computing studies degree. He is currently engaged in teaching ICT at AHS (FUJ Campus).

#### Abstract

The main focus of my 'showcase' would be to relay the concept of executing a project by involving all of the STEM subjects. In order to do this, I would be showcasing a simple project and showing how easy it is to integrate the STEM subject within it. The project involves the right kind of tools that would allow students to learn and experiment all parts of the STEM concepts indirectly.



## Showcase 4:

Online Assessment Tools for AP Biology

### Masoud Akhtar

Biology & Chemistry Teacher AHS, Abu Dhabi Boys Campus, UAE.

#### Bio

Masoud teaches Biology and Chemistry at the AHS, Abu Dhabi Male campus. He has extensive experience of teaching Science across the secondary school curriculum. He taught in the UK for eight years before joining AHS in August 2013.

#### Abstract

Various online tools available for the teaching AP Biology will be showcased. This will include assessment tools designed to complement the current Pearson text book that is in use at the AHS schools. These tools can double as revision aids and test practice for independent study. Online programs for making flash-cards will be demonstrated and a host of customizable interactive games for use in the classroom will be distributed to visitors. Selected iPad Apps intended as virtual laboratories will also be introduced.