



# ITEC

Designing the future  
classroom

## Case study story Israel

Pilot cycle 3: September – December 2012

[itec.eun.org](http://itec.eun.org)

## CASE STUDY STORY: ISRAEL

### The Learning Story

Designing a Physics Simulation

### The teacher

This teacher is particularly interested in working with gifted children.

### The class

- **Age of students:** 5th and 6th grade(10-12 years)

### The lesson/s

**The subject:** Science & Technology

**Aims/Objectives:**

- Developing skills and in the context of collaborative network learning.
- Experience in using online resources for a deeper familiarity with the study material
- Providing means for using network tools (as a user and as a designer) which support learning.
- Becoming familiar with web tags, in the context of preparing the product to search –related situations.
- Explicit teaching of thinking processes: focusing on aspects of creative thinking involved in the processes of searching for information and using search keywords.
- Developing a higher order of thinking through planning and design process in the context of the learning material
- Developing a higher order of thinking in the context of ICT literacy.

### Resources

iTEC community forum, Moodle/[Haifa Net](#), [SIXQS scenario generator](#)

## This case study provides evidence of

- Constructivist pedagogies
- Individualisation
- Creativity
- Collaborative learning
- Effective use of digital tools

## What happened? Teacher and student experiences

Fifth graders prepared activities on the topic of Metals, while sixth graders prepared activities on the topic of Energy. Both groups created activities which were posted on the gallery of the scenarios generator application, [sixqs.com](http://sixqs.com), in both Hebrew and English versions.

## Teacher's comments (+/-)

- **On reflection:** "The reflective activity gave me the opportunity for contemplation on teaching methods for gifted students...this introduction was a very beneficial infrastructure."  
**On connecting with other teachers:** "The concept and the activity of preparing a learning story inspired me to connect with online communities of teachers who are engaged in optimal pedagogy."
- **On using new tools and techniques:** "Preparing projects linked to learning stories has encouraged me to use a variety of tools both from the field of ICT and from the field of pedagogy." ; "My experience with the idea of learning stories, has led me to a place in teaching which is new for me."

## Main enablers

Enthusiasm of the teacher and commitment to developing innovation and new approaches through iTEC.

## Students' comments (+/-)

- **On ICT and teamworking:** "I think our work on a computer with connectivity, made it very easy on us and we were able to communicate very well. It was worthwhile to work as a team because working alone might have been more difficult. As a team, we were able to consult and study together."

- **On authentic learning activities:** "It's very nice to know that what you do affects someone in the world. But then again, it's a bit stressful and confusing to know that someone is going to use what you've created, and it also makes you want to improve it."

## Key innovation/s... What is new/different overall ?

- **Students' work gains a wider audience:** "We have uploaded, for other people, stuff from which they can learn, and I think this way is very interesting and unique." (Student)

## Links

- [SIXQS: Metals](#)
- [SIXQS: Mining](#)
- [SIXQS: Goldrush](#)
- [SIXQS: Measures units task](#)
- [SIXQS: 6<sup>th</sup> grade science mission](#)
- [SIXQS: Discoveries in radioactivity](#)
- [SIXQS: Energy and technology](#)