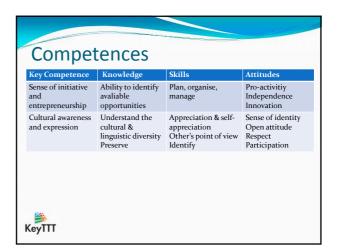


Key Competence	Knowledge	Skills	Attitudes
Digital Competence	Ü	Ability to use&produce Internet based services	Responsible use Engaging positive constructive criticism
Learning to Learn	Learning strategies Autonomous learning	Literacy& numeracy Learning strategies	Motivation Qualification
Social and civic competences	International documents Contemporary events&history Other countries societies Healthy lifestyle	Decision Making Communication Negotiating Show tolerance&Empaty	Collaboration Assertiveness Respect Tolerance



Project Background

- Educational Background
 - Constructivism
 - · Problem-Based Learning
 - Experiential Learning (Klob)
 - Multiple Intelligence Theory
 - · Learning by Doing
 - Co-operative Learning



Project Background

- Challenges in Science Education
 - Limited educational materials in classes
 - Limited laboratories
 - Workpackages and worksheet
 - Student interest
 - Attractive activities for students
 - PISA result



Activities

- Leaf measuring
- Stable construction
- Soil erosion
- **Balloon Staging**
- Rocket transportaion
- Paper rocket
- Water rocket Robotics
- Eperimentarium
- Cartography

Working on network

- Robotics and rocketry
- Amusement park
- Pick formula
- From pebble to penny
- Newton car
- Catapult
- Genetics
- Multimedia math and science Sound hearing
- KeyTTT

Test Implementations

- Local Teacher Training Course
- Practice on Local Students
- International Teacher Training Course

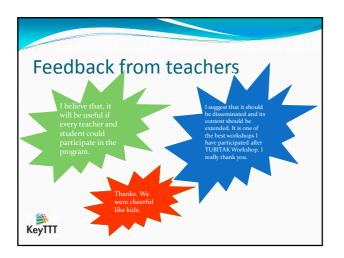


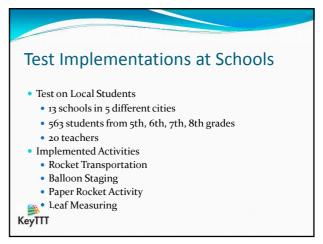
Local Teacher Training Course

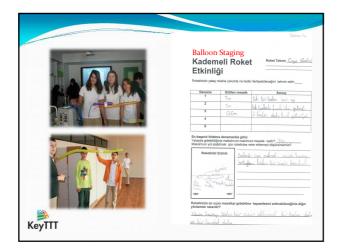
- 24 teachers
- · Different branches
 - Chemistry
 - Biology
 - Math
 - · Science and technology
 - Physics

















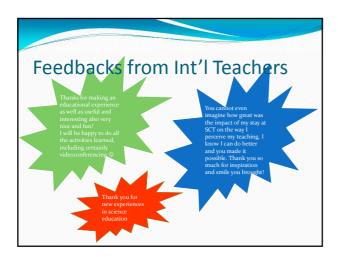


International Teacher Training Course

- · International Teacher Training
 - 16 teachers
 - From
 - Italy
 - Norway
 - Turkey
 - Bulgaria
 - Poland







KeyTTT's Approach to Science Education

- Interactive web-conferencing (IWC) sessions in teaching
- sciences
 In the learning process there are milestones and ways to reach
- We focused on how videoconferencing session in teaching approach can significantly improve the *understanding pattern of a group of learners*.
- The major benefit of using the IWCs or smart boards
 - In a videoconferencing (network) mode is the huge amount of knowledge transmitted in compressed time format and the complex character of the knowledge which students receive.
 - This is possible due to the highly emotional and highly interactive environment that connects real people discussing on real objects or problems.



KeyTTT's Approach to Science Education

- The interactive whiteboards and smart boards are an IT tools that brings innovative education system to the
- The use of interactive whiteboards brings a lot of interaction in the learning process
 - · Improves dynamics of the lesson
- · Improves attention
- · Helps to control the group
- The networking functions
 - Allows a connection of two remote classrooms on a real-time communication between a classroom and a scientist, lecturer or a lab, situated in different city or even country

Good Samples for Int'l Programs

- Test implementation in Italy with IWB
- Partner School Science Program
 - Partnering schools
 - Pairing students
 - · Providing secure email accounts for students
 - · Meet and Greet videoconferences
 - · Videoconferences with NASA
 - · Videoconferences between kindergartens





