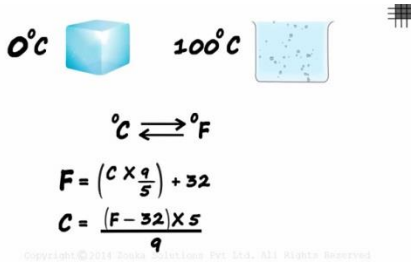
S.T.E.A.M. Children Engineer Academy-Greek lesson plans

LESSON PLAN: 1st year – 3rd Lesson/Dec'17

TITLE	Learning the phenomenon of Boiling  
THEME	Science/Technology/Engineering/Mathematics
GRADES	6th Grades
DURATION	90'(2X45 minutes approximately/per month)
REALIA-MATERIAS	• Electric kettle • Interactive board • Video showing boiling: • http://www.youtube.com/watch?v=u8-Lp3dUnZk • https://www.youtube.com/watch?v=9U0QT6VSNaY • https://www.youtube.com/watch?v=CHn_lLbnm8c • Experiment in the classroom, showing water boiling • A4 paper, showing the way to convert from Celsius to Fahrenheit. • Note pads
OBJECTIVES	Through the lesson, pupils will be able: 1. To notice the boiling procedure while watching the experiment of water in a kettle and a small pot. 2. To learn that there are two scales of temperature measurement. (Celsius and Fahrenheit) 3. To compare these two scales and see some countries that use different temperature scales. 4. To convert a random temperature from the Celsius scale to

	Fahrenheit. 5. To learn that not all liquids have got the same boiling point.
DESCRIPTION	Pupils will be shown boiling procedure while watching the experiment of water in a kettle and a small pot. Then, they will watch a video on boiling. Afterwards they will watch a second video in order to understand the molecules motion and the different boiling point of the liquids. Furthermore they will be told about the different scale temperature measurement and watch a video of how we can convert the one scale into the other and vice versa. Finally, they will try to convert a random Celsius temperature into the correspond Fahrenheit one, based on a mathematical equation.
EVALUATION	At the end of this two-hour presentation, pupils should be able to describe the boiling procedure, in details. They should also be able to recognize the boiling point in the two different temperature measurement scales. Afterwards, they should definitely be able to convert temperature from the one scale to the other. Finally, they will be assigned to find which temperature scale measurement is used in d the European countries.