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

LESSON PLAN: 2nd year – 18th Lesson/May'19

TITLE	How do electric kettles work? THERMOS-KETTLE CONCEPT Body insulation would prevent heat from escaping Steam Heat
THEME	Science/Engineering
GRADES	5 th and 6 th Grades
DURATION	45'
REALIA- MATERIAS	 Electric kettle Interactive board Note pads How do electric kettles work? - Kitchen Appliance Explained https://www.youtube.com/watch?v=wyYoE4fXKbE Heat Transfer in Electric Kettle https://www.youtube.com/watch?v=-nq5imM4EiE
OBJECTIVES	Through the lesson, pupils will be able: 1. To notice that the boiling procedure happens because of the coil which is at the bottom of the kettle.

	 Also, to find out that some kettles have a plate at their bottom but the principle is the same. Pupils will notice that the coil and the heating element is connected to the electricity and when plugged the kettle will start working. Pupils will find out that the water next to the heating element is hotter, rises while the cold water falls down to take its place.
DESCRIPTION	Pupils will be shown two videos showing the function of the kettle.
	They will also be told - while watching – about the molecules motion.
EVALUATION	At the end of this one-hour presentation, pupils should be able to describe the way that kettles work.
	They will also be able to explain why we have this particular motion of the molecules.