Title: Incredible Inventors		Year: 2
Programs: Pettson's Inventions Program		Duration: 1 week
Teaching Ideas	Subject	National Curriculum Objectives
 Introduce topic of Inventions Physically making invention for given task from given equipment E.g. Can children create a tower from spaghetti strands and marshmallows? (Introduce and reinforce vocabulary – reasoning and debugging) What do children think might be potential problems? After the task what problems did they face? Did they come across any problems? E.g. breaking spaghetti? How did they overcome these problems? 	Links to: Mathematical- Problem solving. Resources Practical inventing equipment- e.g. spaghetti and marshmallows. I-Pads with Pettson's Invention Program. I-Pads with Telligarmi Program.	 To understand that programs execute by following precise and unambiguous instructions To create and debug simple programs To use logical reasoning to predict the behaviour of simple programs
 Pettson's Invention Program: Set specific (differentiated) inventions to be solved. Introduce different items and discuss reasoning (logic), e.g. talk about purpose and importance and make predictions Using and applying – solving problems (Pettson's) Children to write instructions on how to solve a specific level on Pettson's Inventions. Children to use Telligarmi to narrate the instructions given for a given purpose e.g. for an I-Pad magazine. Explain how the programme works and what potential problems could be faced by the user. 	Key vocab Algorithm — an instruction/direction which achieves a goal Program — when an algorithm/instruction is inputted on a digital device De-bugging- Finding and removing bugs (problems) in a given programme.	