

## Year 4 – Summer Term 1 We Are Toy Designers Computing

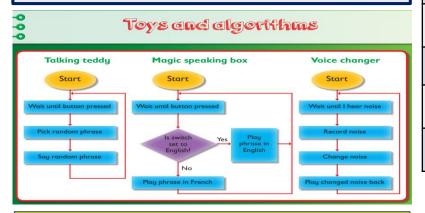


In this unit, the children work together to design a simple toy that incorporates sensors and outputs and then create an on-screen prototype of their toy in Scratch.

## **Computer Science**

## **Prior Knowledge**

Children will already know how to design, write and debug simple programs that accomplish specific goals.



**E-safety:** To compare and contrast the ways messages were sent before and after the internet.

Computing Key Vocabulary		
Algorithm	A clear set of rules or a precise step-by-step guide to solve a problem or achieve a particular objective.	
Computer	An electronic device for storing and processing data	
Debug	To fix the errors in a program	
Input	An input is data that a computer receives.	
Interactive	nteractive refers to software which accepts and responds to input from people	
Output	An output is data that a computer sends.	
Prototype	An early sample of a product or program built to test the concept.	
Proximity Sensor	A sensor able to detect the presence of nearby objects without any physical contact.	
Pseudocode	A simplified programming language, used in program design.	
Sensor	A sensor is a device that detects and responds to some type of input from the physical environment.	
Simulation	Using a computer to model the state and behaviour of realworld (or imaginary) systems/products.	





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This half term we will be using		
Hardware	Software/Apps	
Chromebooks	Scratch	





Blinking teddy







