# Kemnal Technology College – Computer Science Kemnal Key – Year 7 Term 4

Key Vocabulary	
Algorithm	A set of rules or instructions to be
	followed.
Flowchart	A graphical way of showing an
	algorithm.
Mimic	In Flowol, a simulation of a real
	world environment.
Selection	Deciding what code to run based
	on a decision or answer to a
	question. E.g. an IF statement.
Sequence	A set of instructions that are
	completed in the exact order
	that they are written.
Iteration	Where a set of instructions is
	repeated . E.g. a WHILE loop, FOR
	loop and REPEAT UNTIL loop.
Instruction /	A command that the programmer
Statement	gives to the computer.
Input	Data that is given to the computer or
	program to then use.
Output	Information that is provided by
	the computer or program.
Procedure	A group of instructions grouped
	together that can be used by the
	main program.
Variable	A name given to a value in a
	program that can change when
	the program is running.

### **Edison Robots**

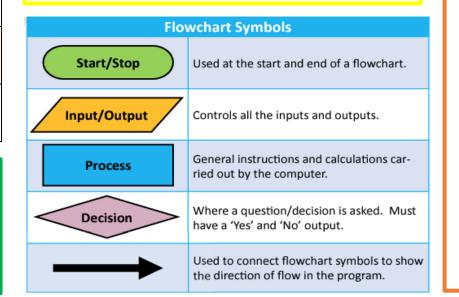
Edison's line tracking sensor is made up of two parts a red LED light and a light sensor. The line tracking sensor also reads special barcodes that activate pre-installed programs. A flowchart is a way of visually displaying a set of instructions (or an algorithm) for any particular task.

Flowcharts have many uses and are one way of showing the sequence of instructions for an automatic computer system.

# A flowchart can represent the algorithm (or set of instructions) for a computer or a computer controlled system. This could be anything from a set of traffic lights, a central heating system on a timer or an electric kettle!

### Kemnal Key Questions

- What is a flowchart?
- What does the term sequence mean?
- What does the term iteration mean?
- What are the 3 key words in our specific structure we use in our topic?
- Explain the purpose of a subroutine in a flowchart



# Edison Robots

## Control devices in everyday life





