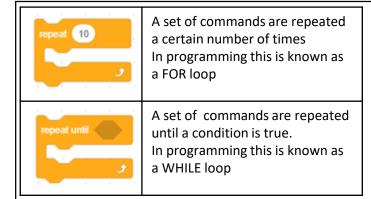
Algorithms

Year 7 | Theme 3
Knowledge Organiser

	Shape	Name	Description
FLOWCHART SYMBOLS		Terminator	Used at the start or end of a flowchart
		Input / Output	Used to represent the input or output of data in a process
	\Diamond	Decision	Used when a decision or choice must be made
		Process	Used to indicate a process or calculation being carried out

Algorithm - a sequence of steps/instructions that can be followed to complete a task.



Sequence

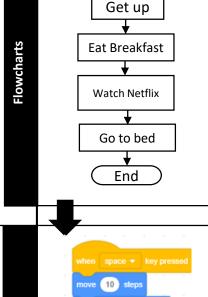
Algorithms

Scratch

In a sequence structure, an action or event leads to the next in a predetermined order.

Tasks that are carried out step by step in sequence

Start



120 degree

120 degrees

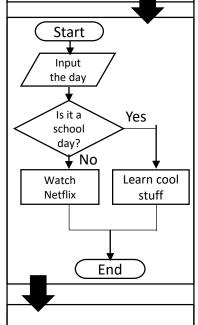
turn (* 120) degrees

move (10)

Selection

A question is asked, depending on the answer the program takes one, two or more courses of action.

A decision needs to be made before the next step can be carried out



when space ▼ key pressed if touching Sprile1 ▼ ? then switch costume to costume1 ▼ switch costume to costume2 ▼

Iteration

A process wherein a set of instructions are repeated in a sequence a set number of times or until a condition is met.

Certain tasks are repeated until a certain condition is met.

