

## How can coding be used to solve a difficult problem?

Word	Definition	Key Knowledge and Concepts	<u>ToodleBit Unit 7 and 8</u>
Sequences	A set of related events that follow each other in a particular order.	<b>Coding is when we tell a computer a set of instructions to follow. We can use this when creating a program, creating an animation or making something physical (such as a robot). There is usually an end goal or a problem to solve when doing this.</b>	
Array	A group of related data values (called elements) that are grouped together.		
Detect	To discover or identify that something is there		
Statement	An instruction or command in writing		
Anemometer	A device that measures the speed of the wind		
Sensor	A device which detects or measures a physical property and records, indicates or responds to it.		

When reading computer code, if it is in blocks, each block is something for the computer to do. We usually use "if" and "else" statements. We can also tell it to complete the code once, multiple times or even forever.

In this code below, the aim is to create a robot that will detect when it is close to an object and either stop or change direction.

Here is an anemometer. This measures the speed of the wind, using sensors.

## Key Knowledge and Concepts

### ToodleBit Unit 7 and 8

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**We can use this when creating a program, creating an animation or making something physical (such as a robot). There is usually an end goal or a problem to solve when doing this.**