Year 6: A theme park needs a prototype for a new amusement ride that changes throughout the

Subject Specific Vocabulary

microcontroller	A simplified computer that is designed to run a single basic program repeatedly
program	A set of ordered commands that can be run by a computer to complete a task
sparkle	A multicolour LED that can be controlled by the Crumble
input devices	Components that are used to control an electrical circuit e.g. microcontroller.
output devices	Components that produce an outcome e.g. motors and lights.
condition	A statement that can be either True or False
selection	Part of a program where if a condition is met, then a set of commands is run
infinite loop	An infinite loop is a loop that commands the instruction/set of instructions to repeat forever.
flat ride	Are rides which typically spin around and usually include a circular platform.
swing carousel	An amusement ride that is a variation on the carousel in which the seats are suspended from the rotating top of the carousel.

John Wardley (1950 – Present)

John Wardley is a British developer for theme parks in the UK and Europe. Responsible for some of the most iconic attractions in the world, including Nemesis, The Smiler, Colossus and Dragon Khan, John Wardley is internationally recognised as a leading figure in the theme park industry.



Careers

- **Ride engineer** – design and build amusement rides



Computer Control Operator –A computer operator is a role in IT which oversees the running of computer systems, ensuring that the machines and computers are running correctly.



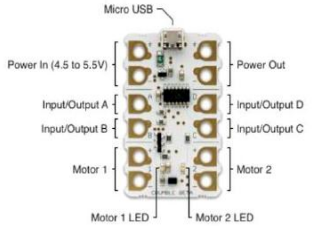
Sticky Knowledge

A count-controlled loop is a form of repetition in which a set of commands are carried out a **specific number of times**.

A condition-controlled loop is a form of repetition in which a set of commands stop being carried out when a condition is met.

A crumble is a small electronic controller board

Microcontroller



Prototype of a swing carousel

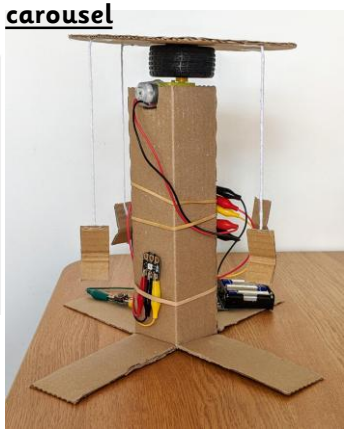
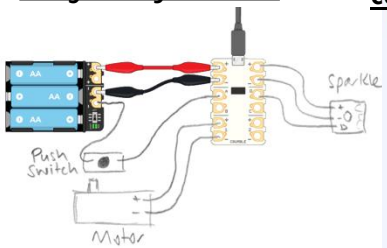


Diagram of a circuit



Example of a block code

