

Year 6 – Design Technology Knowledge Organiser - Term 5

Design, make and evaluate an electronic toy fairground ride for a child.

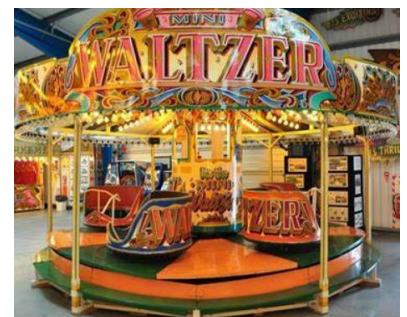
Vocabulary	
Carousel	a type of ride consisting of a rotating circular platform with seats for riders, sometimes in the form of horses on posts.
Chair-o-plane	a ride that is a variation on the carousel in which the seats are suspended from the rotating top of the carousel, like swings.
pulley	a grooved wheel over which a drive belt can run
drive belt	The belt which connects and transfers movement between motor and pulley.
gearing up or down	Changing the rotational speed of a product by the use of pulleys or gears. When a small pulley or gear is used to drive a larger one the rotational speed is reduced and the product has been geared down.
mechanical system	A set of related parts or components used to create movement
driver	The gear or pulley that provides the input movement to the system
follower	The gear or pulley that provides the output movement to the system
motor spindle	The rod on the end of the motor onto which a gear or pulley is attached.
crumble controller	an electronic controller that connects to a computer using a USB cable.



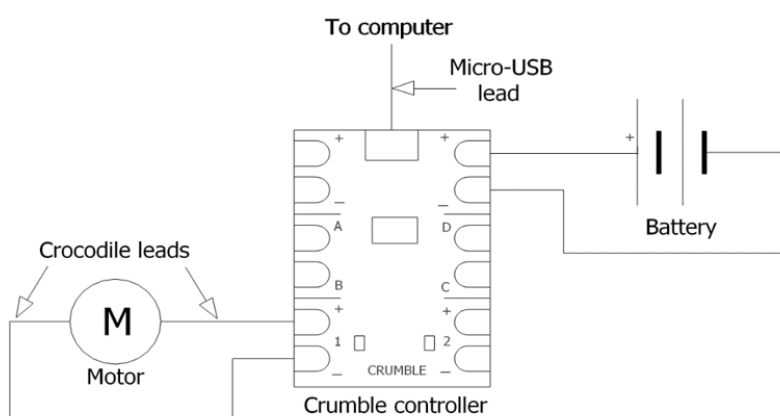
carousel



chair-o-plane



waltzer



How to set up the crumble controller.

