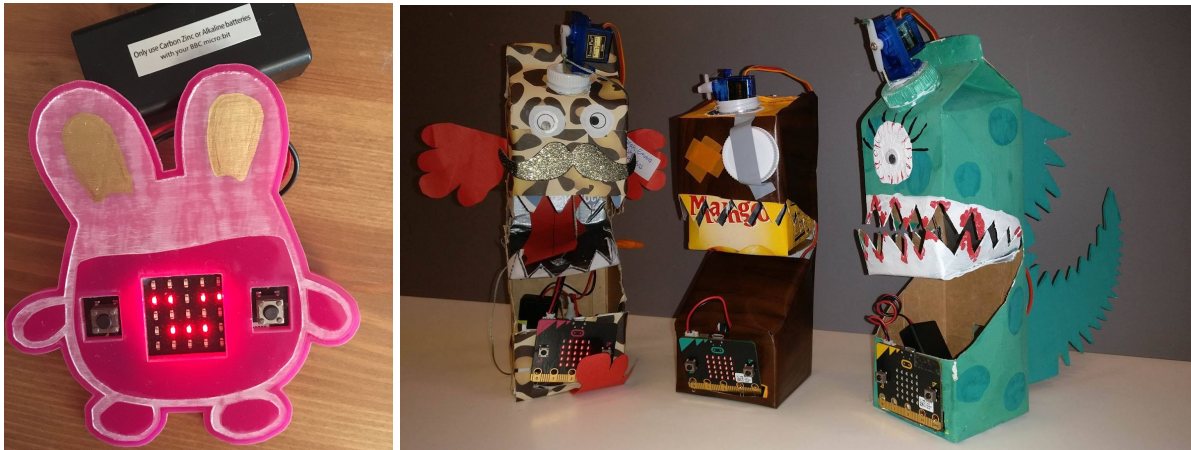# MicroBits Tamagotchi Challenge

Aim: Make a Tamagotchi

Start by learning some MicroBit features:
1. Can you code a game of Rock, Paper Scissors (learn Shake and Random)
   https://www.microbit.co.uk/blocks/lessons/rock-paper-scissors/activity
2. Can you make that Rock, Paper Scissors game multiplayer? (learn Forever Loop and Radio Communication) https://makecode.microbit.org/projects/rps-teams

Next complete the MicroBit Digital Pet Tutorial:
https://www.microbit.co.uk/td/lessons/digital-pet/tutorial
(Learn Input → Condition. Learn how to create a Function and display Image. Learn Pause.)

Now using these skills, can you create your own monster or pet?!

Challenge 01: Can you program it to have several faces for several emotions/needs?

Challenge 02: Can you program it to tell you it's hungry and needs feeding after a set time, say, 60 seconds? (Hint input → running time)

Challenge 03: Can you program it to need exercise, so you have to talk it for a walk of, say, 25 paces? (Hint shake feature)

Challenge 04: Can you program it to respond to another MicroBit as though they were friends? (Hint radio communication)

Challenge 05: Can you make it move?
(https://makecode.microbit.org/projects/milk-carton-robot Learn how to connect servo, light sensor, build a movable body)