institute of imagination

What will your robot do?

I want to build a robot that

	and	
what it senses		what it does

It senses

- **senses light** — a torch, or the room going dark
- **hears a sound** — a clap, a cheer, a shout
- **feels a tilt** — left, right, forwards, back
- **feels a shake**
- **feels a touch** — on the gold logo
- **gets a button press** — A, B, or both
- **feels a magnet** — near or far
- **knows which way it faces** — north, south, east, west
- **feels hot or cold**
- **gets a message** — from another micro:bit

and it

- **waves, nods or shakes** — a 180 degree servo
- **spins round and round** — a 360 degree servo
- **shows a picture or a word** — the 25 lights
- **plays a sound or a tune** — the speaker
- **sends a message** — to another robot

Pick one from each side. Or two. Or three.

What we have made so far, to get you started. Yours will be different.

POMPOM CHEERLEADER ROBOT

A robot that **senses light** and **shakes its pompoms**.

MICRO:BIT NAME BADGE

A badge that **gets a button press** and **shows an animation and your name**.

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ROBOT LAB · ROBOT IDEAS

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