

# 1. Crazy flashing lights

The best light flashing display you can do with your 5 sparkles, could be wild flashing or slowly changing—like mood lighting.

Can you...include random colours to give special effects?



Five 30 min challenges to get you started

30:00

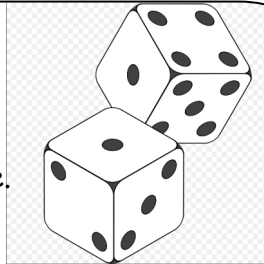
# 6. Make up your own

Show off your Crumble skills by designing and programming your own 30 minute challenge



# 2. Electronic dice

To use as an alternative to a die.



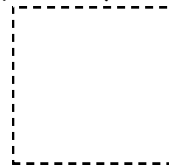
You press a switch, it flashes and then gives you a random number from 1 to 6 (you'll need to borrow an extra sparkle and cables for this one).

Can you...carry out a test to see if it is really random?



# 5. Reaction tester

You press a switch, you wait a random amount of time, as soon as the lights start to come on you press the switch to stop them. The quicker you press, the less the lights come on.



# 4. Night light

A gentle light that comes on when its dark and goes off when its light.

Can you...include a switch that you press to switch it on but only comes on when its dark?

period	pedestrian	carriageway user	use
A			vehicle running time
B			standard stop warning to vehicles
C			vehicle clearance period
D			pedestrian invitation to cross
E			warning to pedestrians to finish crossing and do not start to cross
F			as above, vehicles to give way if people still crossing
G			additional pedestrian clearance time before vehicle running period

# 3. Pelican crossing

You press a switch, the lights do their stuff, you cross safely.



Get a stamp by completing the challenge.



Complete any 3 challenges for a prize.

