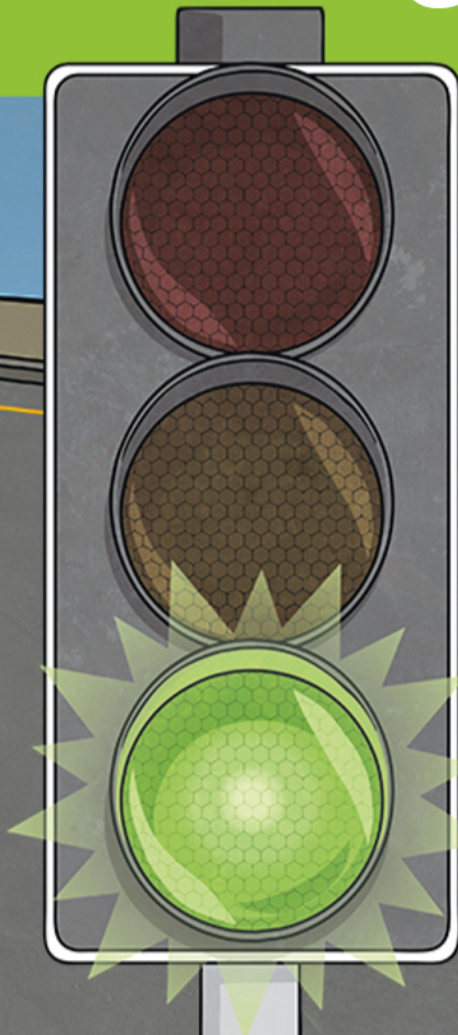


# Garrett Morgan

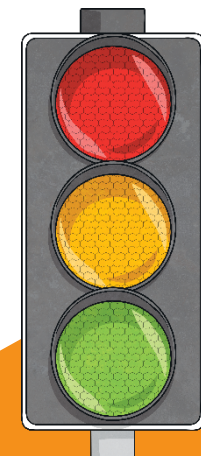


# Garrett Morgan



Garrett Morgan was an American inventor who started his career as a handyman. Garrett was the son of a slave and didn't even go to high school. Instead, he learnt lots of practical skills that he could use to help people. He opened a sewing machine repair shop which was very successful and continued to fix and build things himself throughout his life.

The two inventions which made him famous were the first modern gas mask, which he used to successfully rescue miners trapped in a tunnel, and the first three-signal traffic light.



His light was different to the ones we use today: it was an upside-down T-shape which showed 'stop', 'go' and 'all-stop' (which was used to let pedestrians cross).

# Traffic Lights

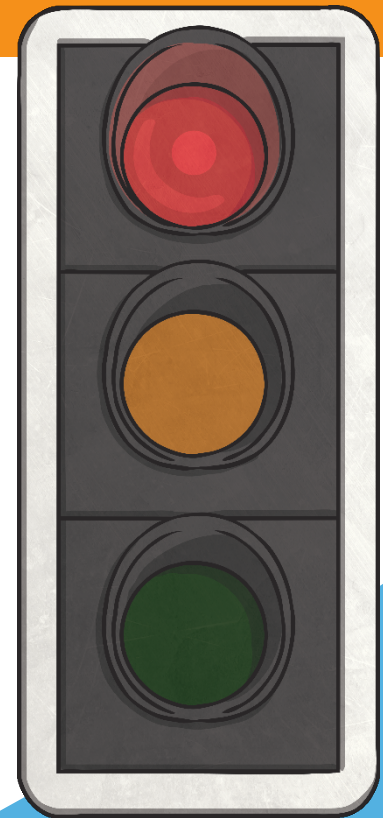


Today, you will be building a traffic light of your own!

It will be a simple box, more like our modern traffic light than Garrett Morgan's T-design. You will use three simple series circuits and switches to light up your bulbs.

You will build your model using a 3D net and build the circuits to fit inside it.

**Can you explain what we will need to make a working circuit with a bulb?**



# Simple Series



Click on each part of the circuit to find out about it:

