



# Numbers

Special Activity

## Osmo **GENIUS** Inventions MONTH

### Let's take a trip and visit **Scotia Coast!**

Travel to landmarks off the Scotia Coast, like one of the oldest weather research stations in the world.



**To get started**, open Osmo Numbers and then tap on this special button.

Can you find  
12 special  
animals and the  
**Robo-Shark?!!**



### Genius Spotlight: **Garrett Morgan**

Some inventions have become such a part of everyday life that it's hard to picture how the world would work without them!

Can you imagine a traffic light without red, yellow, and green? All 3 colors are so important! But 100 years ago (back when roads were still shared with horse-drawn carriages!) traffic signs only signaled for drivers to "Stop" or "Go."

While driving around these busy roads one day in 1923, Garrett Morgan witnessed a serious accident that he felt could have been prevented if the vehicles had known they needed to slow down.

Garrett was skilled at repairing sewing machines and liked tinkering around with inventions in his shop, so he

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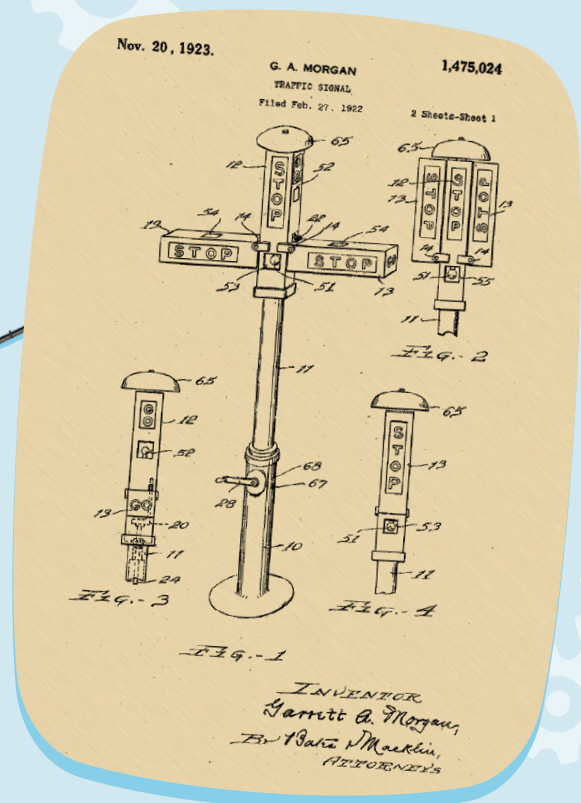
## More about: Garrett Morgan

created a new sign. It had a third signal, meant to slow people down before stopping. He ended up selling it for \$40,000 to a company called General Electric.

They developed Garrett's life-saving invention into the yellow light you see driving around today!



Garrett's Traffic Signal Patent  
November 20, 1923



## Yellow Traffic Light Experiment!

Next time you're in the car or on a walk with a parent, count how many seconds the light stays yellow at different traffic intersections (hint: it won't always be the same!). Which light has the longest yellow around your neighborhood?

For added learning: Use math to predict how long the yellow will last!

It's usually **[Speed limit] divided by 10**, in seconds. For example, if the speed limit is 30, that road's traffic light will probably spend 3 seconds displaying the color yellow before turning to red.

The longest yellow traffic light in my neighborhood is at:

Speed limit:

It lasted for:

1

Safely find a nearby street light.  
Count how many seconds it stays yellow.



2

Divide the speed limit by 10.  
Do the numbers match?