

 ▲ Extremely reactive ☆ Serious bite
Fluorine is rare, which may be a good thing given how fiercely
reactive it is. It reacts with almost every element, even including some noble gases.
Fluorine reacts with water to form hydrofluoric acid, an acid so strong it can burn through glass. Many chemists who tried to isolate fluorine as an element suffered terrible accidents, losing eyes, limbs and their lives. They are known as the 'fluorine martyrs'.

Fluorine

Pale-yellow gas



Neon

¹⁰**Ne**

Look at the Periodic Table, and you will find neon among the noble gases, which are all very unreactive. Its name means 'new', which neon was in 1898 when it was first discovered! It is so light that it can float up and escape from the Earth's atmosphere.

> If you pass electricity through neon it produces an orangey-red glow. So if you track down an old advertising sign, it might contain neon. Painting the glass turns neon signs different colours.

FIND IT IN:

- **FLUORIDE TOOTHPASTE**
- 🔲 TEA

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- NON-STICK (TEFLON) SAUCEPANS
- BREATHABLE (GORE-TEX) WATERPROOFS

Smile please

Tooth enamel is the hardest substance in the body, but it still gets destroyed by the acids produced when the bacteria in our mouths break down sugars. That's why we need to brush twice a day. The fluorine atoms in fluoride toothpaste bond with our tooth enamel to make it even harder and more resistant to decay.

