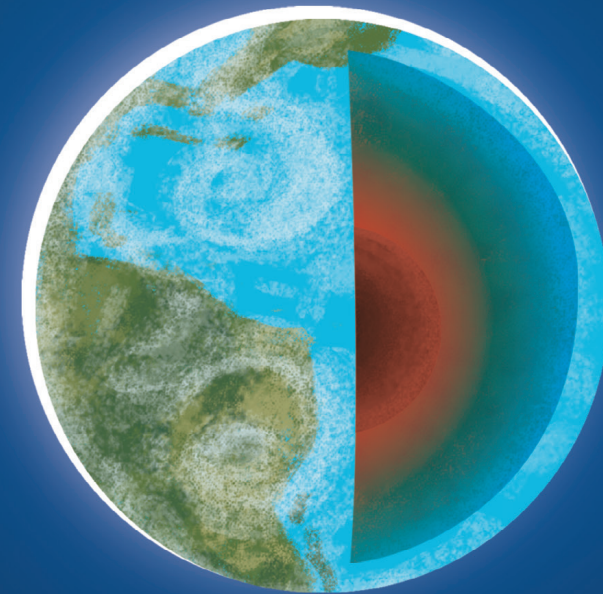


What is the world made of?



Now that's an awesome question, one that people have been asking for thousands of years.



## Scale



In ancient times, Cleopatra the Alchemist learned about the world by conducting experiments, weighing things, and taking measurements. She was studying matter—that's anything we can weigh and that takes up space.

She also tried to turn ordinary metals into silver or gold. It didn't work, but she was one of the earliest women studying chemistry.



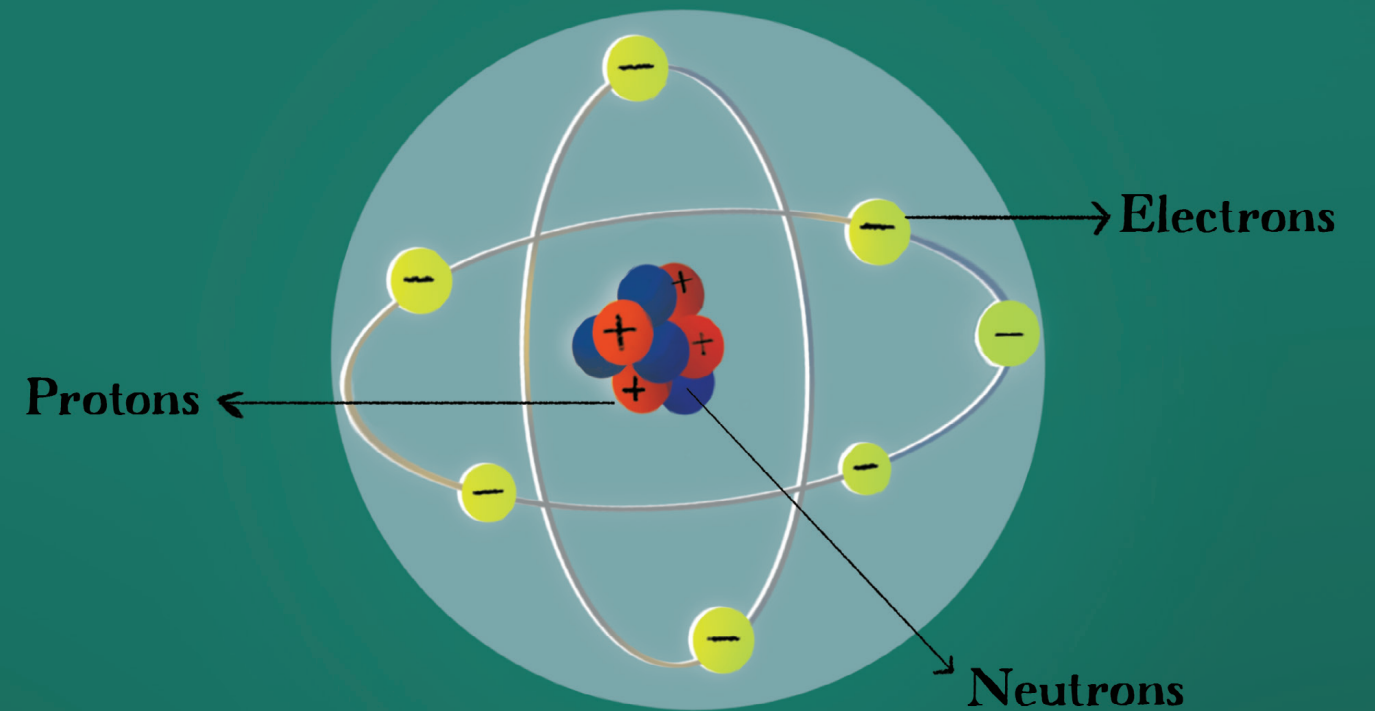


Chemistry is the science of matter and the changes matter goes through. You could also say it's the science of stuff and how it works!

From the air you breathe to the cells in your body, matter and chemistry are everywhere. All the matter in the universe is made up of just three tiny particles: protons, neutrons, and electrons.



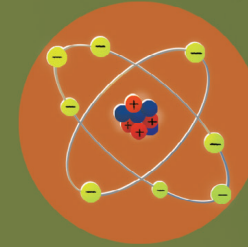
What is chemistry?



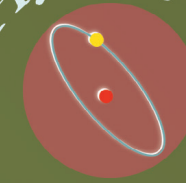


Really? Even me?

Oxygen

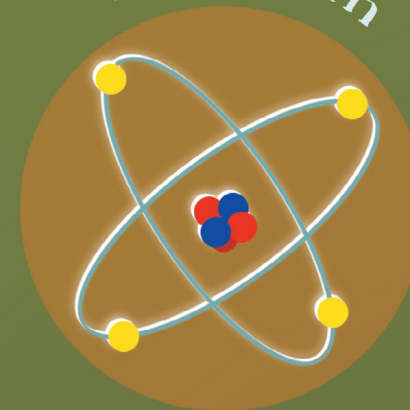


Hydrogen

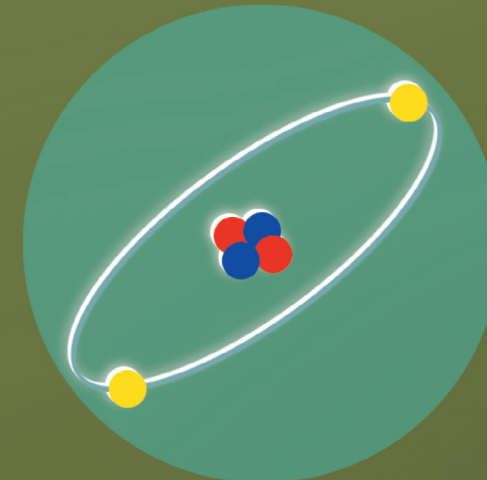


Yes! The protons, neutrons, and electrons get together to build many types of atoms. Imagine atoms as the building blocks for everything in the universe.

Beryllium



Helium



Nitrogen

