



<https://medium.com/inspire-the-mind/episode-3-the-mad-scientist-trope-f9370ea5fe83>

Atoms & Molecules!

Bilingual Physics Activity for 2^o-3^o ESO

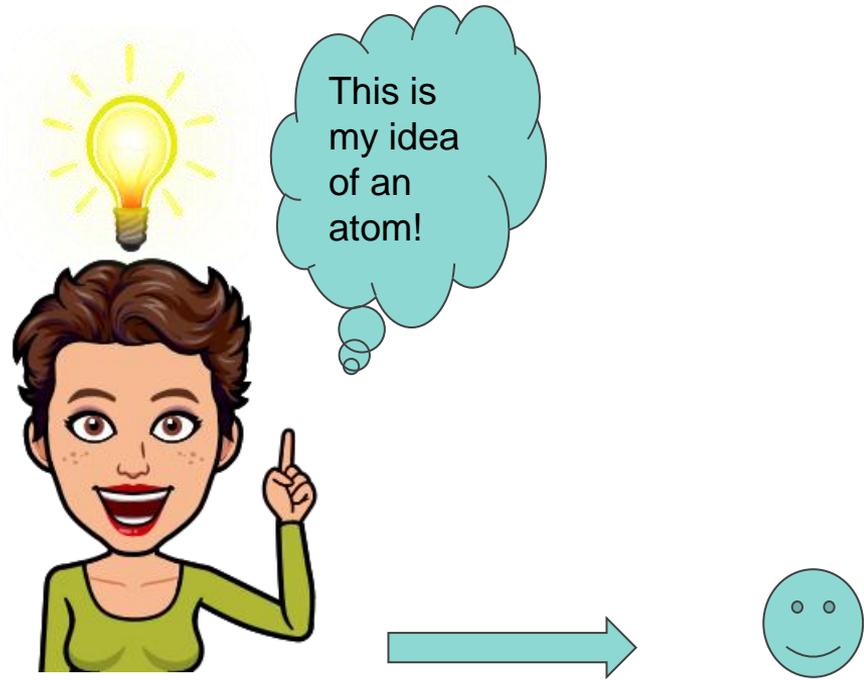
With Olivia

OH SI!



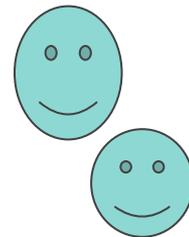
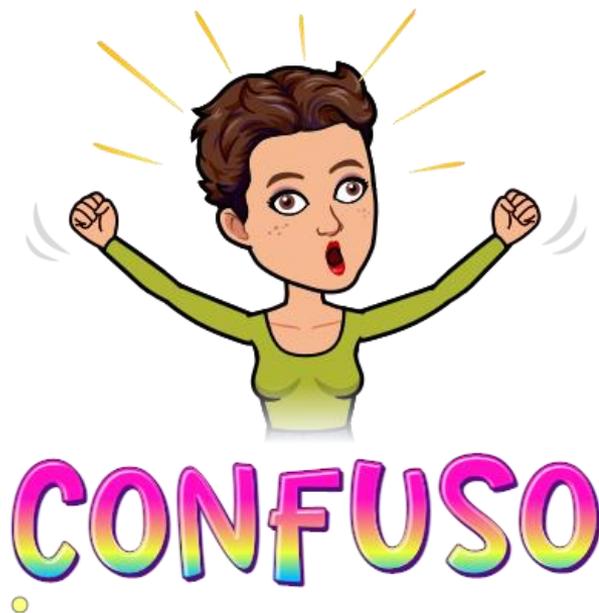
What is an atom?

How would you draw an atom?
Take 3 minutes to draw your idea.



What is a molecule?

How would you
draw a molecule?
Take 3 minutes to
draw your idea.



VÍDEO EN ESPAÑOL

Watch me

Vamos a ver
una Peli



Matter:

Anything that has mass and takes up space.

An atom:

The basic unit of an element. All matter is made up of atoms.

A molecule:

Two or more atoms bonded together.

A proton:

A positively charged subatomic particle located at the center of an atom.

A neutron:

A subatomic particle with no charge located at the center of an atom.

An electron:

A subatomic particle of an atom that is negatively charged and orbits the nucleus extremely fast.

The Periodic Table:

A chart of all known elements that scientists reference when working with atoms or molecules.

Nucleus: Protons and neutrons clump together at the center of an atom to form the nucleus of an atom.

LET'S FIND THE MATCHES!

matter
atom
proton
molecule

Two or more atoms bonded together.

A subatomic particle with a + charge.

Anything that has mass and takes up space.

The basic unit of an element.

LET'S FIND THE MATCHES

neutron

A subatomic particle with NO charge.

electron

A chart of all known elements.

nucleus

A subatomic particle with a $-$ charge.

Periodic table

Where protons and neutrons clump together .

Matter: Materia

An atom: Un átomo: contiene protones, neutrones y electrones

A molecule: Una molécula: dos o más átomos

A proton: Un protón: tiene una carga positiva

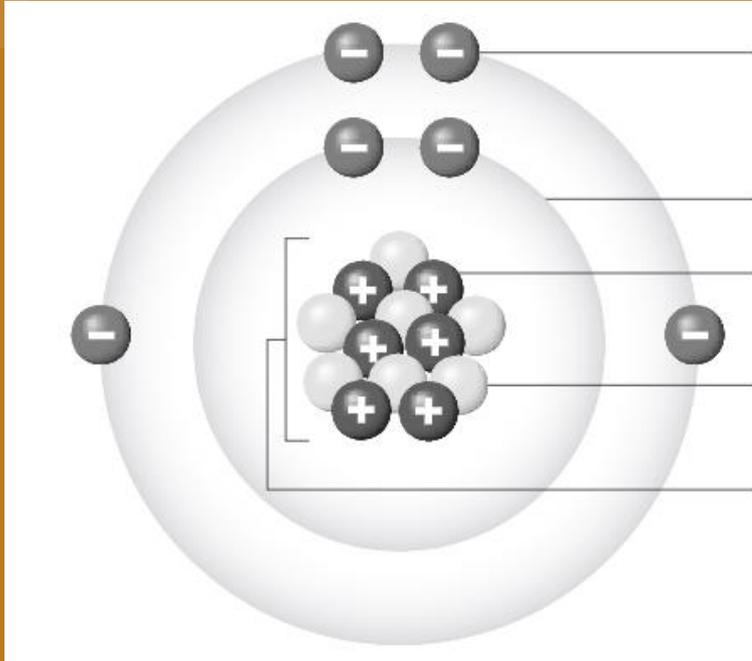
A neutron: Un neutrón: no tiene carga

An electron: Un electrón: tiene carga negativa

The Periodic Table: La tabla periódica

Nucleus: El núcleo, el centro del átomo

Draw Your Own Atom!



Draw all parts of an atom and label each part in English.



Speaking of Atoms...

In groups of 3 or 4 people, answer the following questions in English:

CONVERSATION



Is everything in the universe made of atoms?

Do protons have a negative charge?

Do electrons have a positive charge?

How many atoms are in a molecule?

Do neutrons have a positive charge?

1. ¿Está todo en el universo hecho de átomos?

2. ¿Tienen los protones una carga negativa?

3. ¿Tienen los electrones una carga positiva?

4. ¿Cuántos átomos hay en una molécula?

5. ¿Tienen los neutrones una carga positiva?

**THE
END**



References/Bibliografía

Lesson Plan/Materials

Plantilla de lección/materiales