**1.3 Atomic STRUCTURE** Name:

Date:

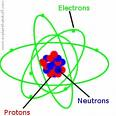
Block:

**Inside the Atom**



subatomic particles: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.



there are \_\_\_\_ kinds:



* 1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_



* 1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_



* 1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_



**Mass**

Protons and neutrons each have about the \_\_\_\_\_\_\_ mass.



Both have \_\_\_\_\_\_\_\_ mass than electrons (about 1800 X more).



**Electric charge**



Electric charge comes in \_\_\_\_ types: \_\_\_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_\_\_.



* + - * Protons have a \_\_\_\_\_\_\_\_\_\_\_\_\_\_ charge (\_\_\_\_).



* + - * Electrons have a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ charge (\_\_\_\_).



Protons and electrons are \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ together.



All atoms have \_\_\_\_\_\_\_\_ number of protons and electrons, so the charges add up to \_\_\_\_\_\_\_, making the atom \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ or \_\_\_\_\_\_\_\_\_\_\_\_\_.



**The nucleus**

Always has a positive charge because of its \_\_\_\_\_\_\_\_\_\_\_\_.



It also contains \_\_\_\_\_\_\_\_\_\_\_\_ which have no charge.



\_\_\_\_\_\_\_\_\_\_\_\_\_ atom nucleus does not have a neutron.



**Electrons**

Occupy energy levels or shells \_\_\_\_\_\_\_\_\_\_\_\_ the nucleus.



This region accounts for 99.99% of the \_\_\_\_\_\_\_\_\_\_\_ of the atom.



Each electron occupies \_\_\_\_\_\_ whole energy level at a time.



Create a MINDMAP that contains the following terms:

**Pure Substance, Atom, Electron, Proton, Neutron, Proton, Positive, Negative, Neutral, Low volume, Compound, Dense, Light-weight, Fast-moving**

