**The structure of an Atom:**

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Name:

What is the structure of an atom?

What is an atom?

What is an element?

What three things make up an atom?

Why is the structure of the atom important?

|  |  |  |  |
| --- | --- | --- | --- |
| Sub-atomic particle | Found where in the atom? | Electrical charge? | How fast does it move? |
| Proton |  |  |  |
| Electron |  |  |  |
| Neutron |  |  |  |

What sub-atomic particles are found in the nucleus?

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What particles are attracted to each other? Why?

What is the difference between a nucleus and a neutron?

What determines what kind of element an atom is?

Compare and contrast an ion with an isotope.

How are valence electrons related to the periodic table?

What are valence electrons?

What is the difference between an atomic number and the atomic mass?

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