

Copy the following on the LEFT side of your notebook

Exploring Atoms Notes

- What are atoms?
 - Basic particles of matter
 - All atoms have 3 different parts
- **Protons**
 - Discovered by Ernest Rutherford in 1911
 - Have a +1 charge
 - Have a mass of 1 dalton (da)
 - Found in the Nucleus
- **Electrons**
 - Discovered by J. J. Thompson in 1897
 - Have a -1 charge
 - Have a tiny mass
 - Orbit the nucleus
- **Neutrons**
 - Discovered by James Chadwick in 1932
 - Have no charge
 - Have a mass of 1 da
 - Found in the nucleus
- Protons and Neutrons make up the nucleus of the atom
- Electrons move around the nucleus in paths called orbitals
 - 4 different types of orbitals- s, p, d, f
- Draw each of the 3 atoms from the notes