

THE TEENI TINY ATOMS

New Mexico
Supercomputing Challenge
Final Report

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Team#77

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Summary

Right now we have realized that an atom is an incredibly fascinating subject. We know that an atom collects and throws electrons basically to fill the slots. Also we found out that a partner's electron moves at a fast speed. We found out that an atom cannot be done using and that an atom can be changed not created or destroyed.

Goal

My goal is and me is to create a greater understanding of atoms than we already know. Also we want to figure the mechanisms of an atom to reach places so small that we can't reach.

Up To Date

Right now we have found a lot about atoms and why it does what is does. We also figured out why an atom holds together. We figured out how to make an atom on star logo.

Problem

Our problem was to see what we could do with atoms once were done using them. During our project we have realized that atoms are always moving so were never done with them.

What Are Atoms?

The word atoms are comes from the Greek word atomos meaning unbreakable. Atoms are the building blocks of matter, and there are over 100 different elements. Atoms combine with other atoms to make other things. Atoms combine with other atoms so they can fill there shell and be stable.

What is an electron cloud?

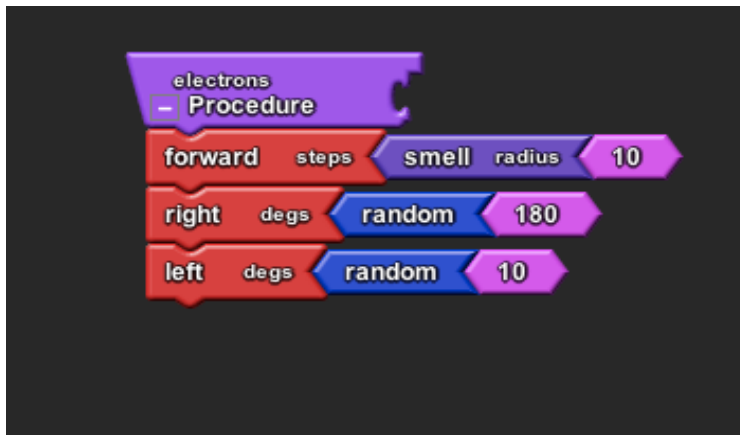
An electron cloud has a radius about 10,000 times larger than the nucleus. An electron cloud is an area around the nucleus, and the electrons are organized in an orderly manner.

Radioactive Atoms

A Radioactive atom happens when a proton is added to the nucleus. Once you add a proton you cant go back so it's a one-time thing. Also radioactive atoms are more stable then before.

Origin of atom

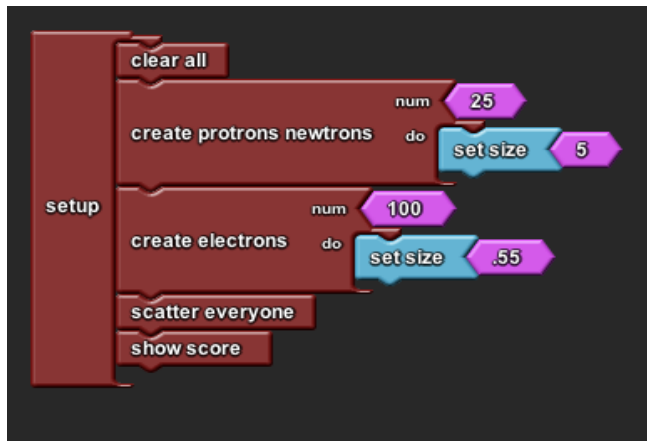
Diamonds are made of carbon. Each carbon atom is attached to four other carbon atoms with tight bonds. There are three types of carbon Diamond, Graphite, and The Buckminster fullerene. Diamond is the hardest natural material known to man, Graphite has a special crystalline structure with the carbon atom are on layers of each other, The Buckminster fullerene is made out of carbon and looks like a soccer ball, also it's a molecule consisting sixty carbon atoms. Democritus was the first to bring the idea of atoms. Empedocles believed that all matter was made up of 4 elements water, earth, fire, and air.



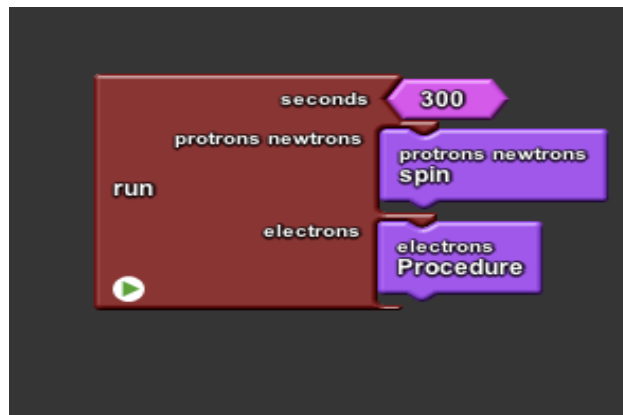
To make the electrons move this is what we did.



To make the size of the protons and neutrons and move this is what we did.



When we press set up this is what we told them to do.



When we press run this is what they will do.

Bibliography

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Morgan Sally, FROM GREEK ATOMS to QUARKS, Chicago, Illinois, Heinemann Library, 2007

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Date we saw it: 4/1/13. The URL: <http://www.epa.gov/radiation/understand/radiation.html>