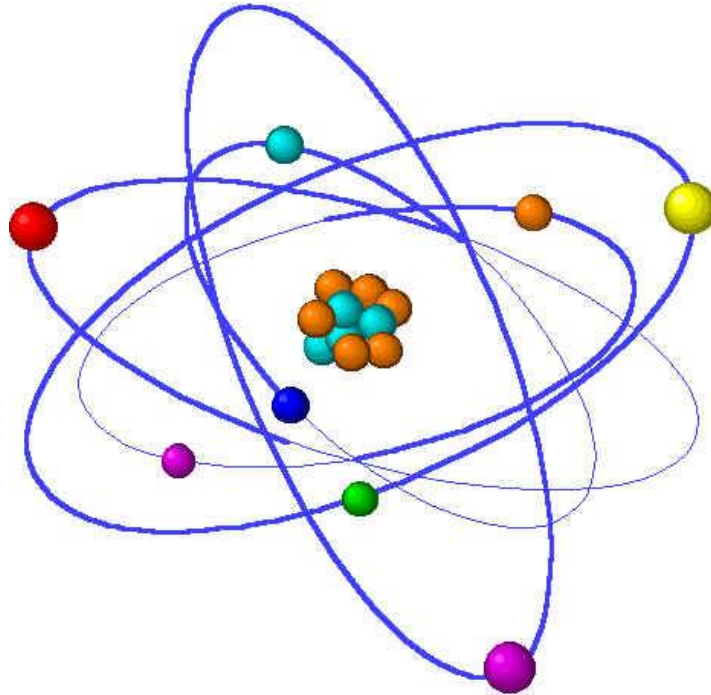


Physics Project Report

“Atomic Models”



BY:

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XII – IPA D/ 2012

Friday, September 14th, 2012

It was Friday when Mr. Nursyam talked about atomic philosophy, then he gave us an assignment to make 3 atomic models in groups. It stands for 4 student for each group and we have to finish and submit them before the mid term exams start. So we gathered in groups of four people and agreed to plan the right timing for us to make them on the next Monday during the breaktime, because one of our member was a crew of STUPA that was still running at that time.

Tuesday, September 18th, 2012



As planned, we talked about the materials to make them that day. First, we thought that we could make the models using balloons, so we decided to buy the materials after school finished. But again one of our member couldn't make it because he had a project due the next day. Then we went to the Mall nearby to buy those materials we talked about.

Wednesday, September 19th, 2012

At Physics Laboratory, During Mr. Nursyam's physics class



During the class, Mr. Nursyam gave all of us time to create the atomic models, because he want to take some picture of us when we make the models, for school documentary. So we started to make the Thompson Atomic model, based on what we planned yesterday. First we prepared the Materials, then we blew the balloon so we could put some torn papers glued by PVA Glue on the surface of the blown Balloon. After we covered all the balloon surface with the torn papers, we dried the balloon by using two fans on the laboratory. Because it was

so tiring to keep holding the balloons near the Fans (even more, those fans don't have any buttons to stop moving around so we had to hold the balloons and follow the fans movements), so we took turn doing it. During the process, we also made the electrons for the model.

Friday, September 21th, 2012

During the first break time, we checked the balloon that we already put it in our member's locker. Unfortunately, we failed. Why did we fail? Because that balloon burst right after we put it in locker. It was so disappointing and we were so down. But we knew that we can't give up now! We still have a time till the deadline.

At the second break time, we gathered again to re-plan about how we make J.J. Thompson atomic model in another way but the balloon technique. After that we agreed to make the model by using a plastic soccer ball, but we still used the power of PVA Glue and torn papers.

Saturday, September 22th, 2012

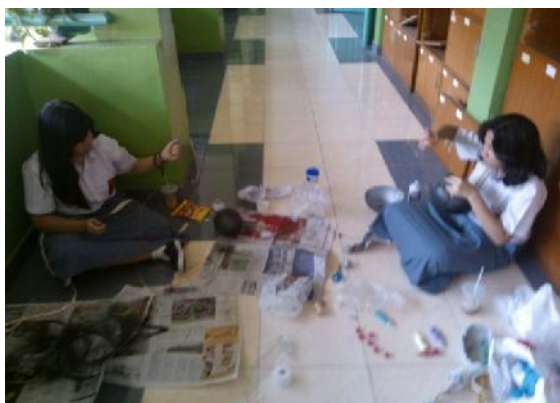
That day we were supposed to gather again at school to start making the models we already re-planned but again, one of our member couldn't make it. So three of us, went to the mall nearby to make it. There, we bought some materials we need. Then, we went back to school and we made a JJ. Thompson's atomic model using that plastic ball. We divided the ball into 2 parts and we started to work on it by put some torn papers and glued them. We don't know why it took so long for us to finish it. Later in the evening, we decided to get back home and continue the work later when we have another free time, but we already finished the Gluing process.



Monday, September 24th 2012

After school, we gathered again to make the core of Rutherford Atomic model, because if we want to continue the Thompson's, we needed pyloxbut at the time we still didn't have them, so we make it instead. But one of us couldn't make it again because she was sick and had to go home early. Before we started, we went a supermarket near our school to buy the materials needed to create the Rutherford's Atomic model. After we bought all the materials we needed, we went back to school to continue making the models. We created the core of Rutherford's atomic model by using a smaller plastic ball which is alike the one we used for the Thompson's model. We also used the same method to colour it. Then, we created the protons for the Thompson Model, made from clay we bought on Saturday. After we finished making the core and protons, we decided to call it a day because half of our members had to attend a course.

Tuesday, September 25th 2012



After the bell rang at the end of our class at school, we decided to continue making the models. That time, we agreed to colour the model by using pylox which one of us had bought the night before. First, we coloured the Thompson and Rutherford models by using Black and Silver pylox. We also made the orbit by using wire covered by rubber tube for Rutherford's Orbit. It was a little bit tiring so we agreed to go back home and we had an early dinner together near our school.

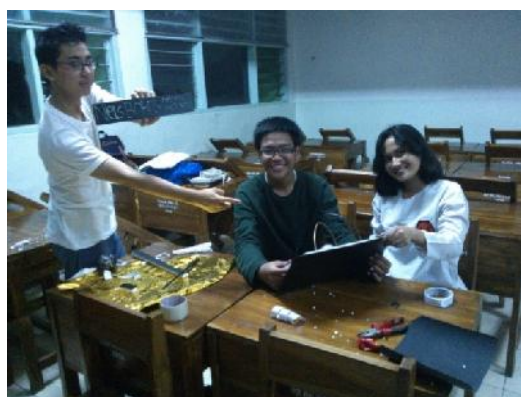
Thursday, September 27th 2012

Like the previous days, we were still working on it, we coloured the wires, the atoms, the electrons, protons and all of those materials that were needed to be coloured. We also made some additional things to complete our atomic models so they would be great. But the time taken was longer than before, so we came home about at 6 p.m.



Friday, September 28th 2012

Friday, that was the most productive, the most tiring but so much fun day ever. We thought that we had to study harder for the upcoming mid terms exams next Monday, so we decided to work on our models harder too on that day, so in the next day we got time to study and prepare for the exams since it's our senior year so we have to realize and study more and more.





First, like the other teens we didn't work that serious, and we thought that that won't be finished that day. We laughed a lot we played around but when it was getting darker we started to take that seriously and amazingly we finished making the Bohr & Rutherford's atoms and their orbitals. But not yet for the display for them.

That day we made a group in a group. That means that two of us were working on the Rutherford's atomic model and the other working on the Bohr's atomic models.

Finally, after failing on that things a few times, we made it. We were so happy that we could finish them on that day. We took some photos of them and we celebrated it by blowing our balloons and making a weird sound on that night but we stopped since we were afraid the office boys would thought that we are those mysterious creatures that have been talked about around the school.

Then we went back home happily.

Saturday, September 29th 2012



This is the day where we write this report, we decided to go out together, now were at the mall near school. We bought some materials for

the finishing parts of our project. And we made this report while having lunch and playing around together. We feel so relieved that this project almost come to its end.

Aaanndd, Finally it is done!

We finished the project before the evening. Unfortunately one of us can't take part in the last picture with all of our done models because she had an important event to attend. Maybe there are so many detail flaws in our models, but still, we are very proud and happy with our work.



Project Finished