

Worksheet 3: Dream Journey into the Atom

Particles and People Puzzle

Use the poster to solve these clues:

1. In 1897, I made a beam of electrons in a vacuum tube. Who am I?	
2. You'll find me in an atom and in a lightning flash. I sometimes travel along wires. I'm naturally negative! What am I?	
3. It was a surprise to me when an alpha particle bounced back! My prediction was completely wrong! Who am I?	
4. I may be small, but I'm a lot heavier than those electrons. Maybe that's why they orbit around me! What am I?	
5. I'm using electrons to study what is inside protons. Who am I and where do I work?	
6. I am one of these: a molecule, a proton, an electron, an atom or a nucleus. I'm the only one of these who isn't made up of other particles. What am I?	
7. Jude uses me in a beam with loads of others just like me so that she can look into new materials. What am I?	
8. I work on the world's biggest particle accelerator looking for answers to big questions. Who am I and where is the accelerator?	
9. Gavin is working on me. I am going to be the new version of the World Wide Web! What am I?	
10. I use work done in particle physics experiments to make better X-ray detectors which should help us to treat cancer. Who am I?	

The next two of these have answers but not clues! Can you think of good clues for them?

11.	Quark
12.	Molecule