

Worksheet A – Atomic Models

For each of the following, draw a picture (Representation? Model?) of the following atomic theories. Use your notes or the book (pgs 128-129 are good to look at) to remind yourself what each theory says is true about all atoms. Write in each box the parts of the theories that we still believe to be true/use today.

<p>Dalton's Model</p>	<p>Thomson's Model ("Plum Pudding" Model)</p>
<p>Rutherford's Model (Nuclear Model)</p>	<p>Bohr's Model (Planetary Model)</p>
<p>Schrodinger's Model (Quantum Mechanical Model)</p>	

Answer each of the following questions about the 6 atomic models. Use the previous page, your notes, and your book, to help you decide what was true and turned out to be not true about them.

1. What ideas of Democritus' are still thought to be true?
2. What ideas of Democritus' are thought to be false?
3. What ideas in Dalton's atomic theory are still thought to be true?
4. What ideas in Dalton's theory turned out to be false?
5. What new ideas came from Thomson's model?
6. What did Rutherford find for his model that was different than Thomson's ?
7. What new idea did the Bohr model bring to science?
8. What new idea did the Schrodinger Model bring to science?
9. What is our modern atomic model?