# Chemistry Lesson Plan

<table>
<thead>
<tr>
<th>Topic</th>
<th>Structure and Properties of Matter</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lesson Title</td>
<td>Models of the Atom</td>
</tr>
<tr>
<td>Lesson Number</td>
<td>3</td>
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<tr>
<td>Next Generation Science Standards:</td>
<td>HS-PS1-1. Use the periodic table as a model to predict the relative properties of elements based on the patterns of electrons in the outermost energy level of atoms.</td>
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### Learning objectives:
- Describe Dalton and Thomson’s models of the atom, linking it to the scientist which made the discovery.
- Identify the shortcomings of each atomic model and how the subsequent model further developed our understanding.

### “I can” statement:
- I can outline the different models of the atom, their shortcomings and how each model contributed to today’s atomic model.

### Prior Knowledge:
- Basic structure of the atom

### Vocabulary:
- isotope, neutron, proton, electron, plum pudding model, alpha particle, planetary quantum model, electron cloud model, energy level, photon, quarks, nuclear model

### Summary of Activities:
1. Distribute and complete bell ringer activity.
2. Discuss guided notes and slideshow, with students.
3. Vocabulary worksheet
4. Exit quiz

### Additional Resources:
- Models of the atom YouTube clip
- Thomson’s plum pudding model YouTube clip

### Homework:
- Homework task

### Assessment:
- Bell work
- Assignment/Lab project
- Exit quiz
- End of unit review