North Lake Senior Campus: ATAR Chemistry Year 11: Task 1

**Discovering the Atoms Structure : Name : \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Mark out of 37: \_\_\_\_\_\_\_**

1. Briefly describe 2 theories of Dalton’s that are still valid today [4 marks]
2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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1. a) What equipment did Thomson use for his experiments? [ 1 mark]

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b) Describe two of the experiments Thomson carried out using this equipment and his observations. [ 4 marks]

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c) What conclusions did he draw? [ 3 marks]

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d) What model of the atom did he propose? [ 3 marks, include a diagram]

1. a) Describe the experiment that Rutherford performed (include a diagram) [ 4 marks]

b) What did he observe? [ 2marks]

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c) What conclusions did he draw and what model did he come up with ? [ 4marks]

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1. a) In what way was Bohr’s model similar to Rutherford’s. [1 mark]

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b) How did Bohr modify the understanding gained by Rutherford? Include a diagram[ 2 marks diagram, 3 marks explanation]

1. a) What particle did Chadwick discover? [ 1 mark]

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b) What experiments did he use ? [ 3 marks]

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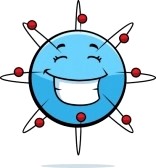
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c) What did he find out about the mass and the charge? [ 2 marks]

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