



Oxford City Schools

Proficiency Scale

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GRADE LEVEL: 10/11 COURSE NAME: IB Chemistry
MEASUREMENT TOPIC: Model Particulate Nature of Matter

4

In addition to Score 3, the student makes in-depth inferences and applications.

- Investigate the trends of atoms and develop a particulate model of an atom

3

The student will:

- Explain the quantum mechanical model of an atom
- Predict trends in atomic nature
 - Analyze atomic spectroscopy
 - Calculate properties of atoms

2

The student will:

- Compare relationships between periodic trends and reactivity of elements..
- Describe the quantitative relationships between spectrums.
- Use mathematical reasoning in isotopes.
- Use models to describe the composition of matter.

1

With help, a partial understanding of some of the simpler details and processes and some of the more complex ideas and processes.

Key Vocabulary: