



Oxford City Schools

Proficiency Scale

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GRADE LEVEL: 10-12 COURSE NAME: Chemistry
MEASUREMENT TOPIC: Plan and Carry Out Investigations of Gasses

4

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

3

The student can:

- **Plan and Carry out investigations to prove the Kinetic Molecular Theory**
- **Explain the relationships between pressure, volume, temperature, and moles of a gas**
 - **conceptually**
 - **graphically**
 - **quantitatively**

2

The student can:

- Perform mathematical calculations using Gas Laws
- Collect data to determine the effects of pressure, volume, temperature, and moles on gases
- Interpret changes in particle motion and collisions using temperature and pressure

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: Kinetic Molecular Theory, Boyle's Law, Charles's Law, Avogadro's Law, Dalton's Law of Partial Pressures, Combined Gas Law, Ideal Gas Law