

Lesson 25: Atomic Theory Notes

Chemistry with Lab

Model: A _____ idea used to explain _____ facts in _____.

Theory: An _____ of _____ facts and _____.

To remain valid, models and theories must:

- _____ all known _____
- enable _____ to make correct _____

Democritus:

- proposed the _____ of an _____
- word comes from the _____ word _____ which means
_____ or "indivisible"

Aristotle:

- _____ the _____ of the _____
- said _____ could be _____

Dalton's theory proposed that atoms:

- are _____ of _____
- are _____
- of the _____ are _____
- of _____ are _____
- _____ in _____,
ratios to form _____

Lesson 25: Atomic Theory Notes (cont.)

Chemistry with Lab

J.J. Thomson

- credited with _____ of _____: a blow to _____
_____ atom
- proposed the _____ model of the _____:
_____ charged _____ embedded in a ball of

Rutherford's Gold-foil Experiment:

- aimed _____ at _____
- _____ passed _____
- a _____ particles were _____
- _____ particles even _____

Conclusions of Rutherford's experiment:

- _____ of the _____ is _____
- _____ charged _____

The Chemistry Quiz

CR1. _____ CR2. _____ 1. _____ 2. _____ 3. _____

4. _____ 5. _____