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

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._____