

Bohr's Energy Levels

- Electrons in _____
- _____ energy levels: _____ to _____
- _____ energy levels: _____ from _____
- Ground State: _____ in _____ possible

Excited Atom

- Atom has _____.
- _____ state is _____.
- _____ soon _____ same amount of _____.
- _____ seen as _____.

Wave Description of Light

Wavelength (_____): _____ between _____ on _____ waves

Frequency (_____): the _____ of _____ passing a given _____ in a given _____

$c = \frac{\text{_____}}{\text{_____}}$
 $c = \text{_____} : \text{speed of _____}$

Sample problem #1: What is the frequency of light if the wavelength is $6.0 \times 10^{-7} \text{ m}$?

Sample problem #2: What is the wavelength of light if its frequency is 5.0×10^{14} Hz?

Particle Description of Light

_____ exists as _____ called _____
E = _____

The Modern View of Light

_____ has a _____.

- Light may _____ as a _____.
- Light may _____ as a _____ of _____ called _____ or _____.

Spectroscopy

- _____ lines represent _____ as _____ returns to _____.
- _____ lines _____ an _____.
- Called the _____ of an _____.

Orbital

_____ of _____ where an _____ is _____ to be _____

The Chemistry Quiz

CR1. _____ CR2. _____ 1. _____ 2. _____
3. _____ 4. _____ 5. _____