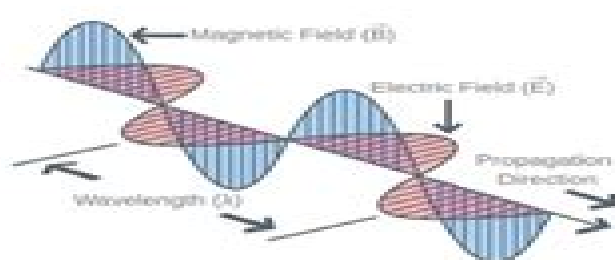


## Chapter Two: Atomic Theory

### (I) Topic 2.1: Atomic Structure

|                                                                                                                          |                                                                                                                                                                                                                                                                                      |
|--------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| What are <b>electromagnetic waves</b> ?                                                                                  | Electromagnetic waves are oscillations (wave cycles) of an electro-magnetic field that propagates through space at the speed of light.<br><br>→ $E(x) = A \sin [k(x)]$                                                                                                               |
| - What are the <b>two components</b> of electromagnetic wave oscillations?                                               | <b>Electric Field Oscillation (E)*</b><br><b>Magnetic Field Oscillation (B)</b><br><br><br><br>* For this course, only the Electric Field (E) will be relevant.                                    |
| - What are <b>examples</b> of electromagnetic waves?                                                                     | Light, X-Rays, Radio Signals...etc.                                                                                                                                                                                                                                                  |
| How do electromagnetic waves relate to the atomic structure and properties of the atoms that makeup molecular compounds? | The atomic structure and properties of atoms are determined through the way <i>they interact</i> with electromagnetic waves.                                                                                                                                                         |
| What is the <b>Electric Field</b> of electromagnetic waves?                                                              | It is a simple periodic wave characterized by a certain wavelength [letter lambda ( $\lambda$ )] and frequency [letter nu ( $\nu$ )].<br><br>The Electric Field is <b>an electric vector that changes with "x"</b> or distance/time at which the electromagnetic wave has travelled. |
| What are <b>Wavelengths</b> ?                                                                                            | The wavelength of periodic waves refers to the distance between two maximum (or two closest equivalent) points of the wave.<br><br>- Usually expressed in units of distance ( <b>nanometers</b> ) [ 1 nm = $10^{-9}$ m ]                                                             |
| How is <b>Amplitude (A)</b> an important                                                                                 | The amplitude or "height" from the axis to the                                                                                                                                                                                                                                       |

# Answers Chemistry A Study Of Matter 1301

**Rachel S Tattersall**



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