Chemistry concepts

Summer 2021

A picture containing kitchen appliance

Description automatically generated

**Purpose:** Introduce chemistry topics in a relaxed environment in the summer

**Who should attend:** High school students who plan to take regular/honors/AP chemistry in the upcoming school year 2021-2022

**When:** See Schedule & Syllabus

**Where:** Zoom Sessions

**Contact Info:**

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| EMAIL: [madhavi1278@yahoo.com](mailto:madhavi1278@yahoo.com) | PHONE: 301-602-6858 |

Teacher: Madhavi Mahavadi

M.S Biotechnology (Johns Hopkins)

B.S Biochemistry and Molecular Biology (Univ. of MD Baltimore County UMBC)

**Schedule & SYLLABUS**

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| **Day** | **Date** | **Duration** | **Session** | **Topics** |
| **Monday** | **21-Jun-2021** | **7pm – 9:30pm** | **1** | **Introduction**  **Matter and Measurement** |
| **Wednesday** | **23-Jun-2021** | **7pm – 9:30pm** | **2** | **Atoms, Molecules and Ions**  **Electronic Structure of Atoms**  **Periodic Table Properties** |
| **Monday** | **28-Jun-2021** | **7pm – 9:30pm** | **3** | **Chemical Bonding** |
| **Wednesday** | **30-Jun-2021** | **7pm – 9:30pm** | **4** | **Reactions and Stoichiometry** |
| **Monday** | **05-Jul-2021** | **7pm – 9:30pm** | **5** | **Properties of Solutions**  **Gases** |
| **Wednesday** | **07-Jul-2021** | **7pm – 9:30pm** | **6** | **Kinetics**  **Thermochemistry** |
| **Monday** | **12-Jul-2021** | **7pm – 9:30pm** | **7** | **Thermodynamics**  **Chemical Equilibrium** |
| **Wednesday** | **14-Jul-2021** | **7pm – 9:30pm** | **8** | **Acid-Base Chemistry** |
| **Monday** | **19-Jul-2021** | **7pm – 9:30pm** | **9** | **Electrochemistry** |
| **Wednesday** | **21-Jul-2021** | **7pm – 9:30pm** | **10** | **Nuclear Chemistry**  **Introduction to Organic and Biological Chemistry (time permitting)** |

* **The purpose of this class is to introduce the chemistry topics in a relaxed environment so that the students are prepared for regular/honors/AP chemistry that they plan to take in the upcoming school year.**
* **The above syllabus is tentative, and I may move the topics depending on the understanding of the students.**
* **Homework – based on the concepts, I may give worksheets for practice at home that shouldn’t take more than 1-2 hours per week.**
* **I don’t plan on giving any exams, but during the sessions, I will randomly quiz the students on either the current concepts or previous topics to test their knowledge.**
* **Make-up sessions – based on the number of classes missed by the number of students, I will probably hold one or two make up sessions towards the end of the course.**