**AP PHYSICS C**

**UNIT 1 SYLLABUS**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Class #** | **Topic** | **Lab Performed** | **HW** | **Challenge Set Due** | **Quiz**  **Test** |
| **2** | **Building Blocks of Motion** |  | **Read Chapter 1**  **CH 1 (Online)**  **HW #1 (Book)** |  |  |
| **3** | **Uniform Motion** | **Lab #1**  **Uniform Motion** | **Read 2.1**  **CH 2A (Online)**  **Lab Report #1** |  |  |
| **4** | **Motion w/Constant Acceleration** |  | **Read 2.2 – 2.4**  **CH 2B (Online)**  **HW #2 (Book)** |  | **Quiz #1**  **Uniform Motion** |
| **5** | **Motion w/Constant Acceleration** | **Lab #2**  **Motion w/Constant Acceleration** | **Lab Report #2** |  |  |
| **6** | **Free Fall** |  | **Read 2.5**  **CH 2C (Online)**  **HW #3** |  |  |
| **7** | **Free Fall** | **Lab #3**  **Acceleration Due to Gravity** | **Lab Report #3** |  |  |
| **8** | **Vectors** |  | **Read Chapter 3**  **CH 3 (Online)**  **HW #4** | **Challenge Set #1 (Due)** | **Quiz #2**  **Motion w/Constant Acceleration & Free Fall** |
| **9** | **Projectile Motion** |  | **Read 4.1 – 4.3**  **CH 4A (Online)**  **HW #5** |  |  |
| **10** | **Projectile Motion** | **Lab #4**  **Hit the Target** | **Lab Report #4** |  |  |
| **11** | **Circular Motion** |  | **Read 4.6 – 4.7**  **HW #6** |  | **Quiz #3**  **Projectile Motion** |
| **12** | **Unit 1 Review** |  |  |  |  |
| **13** | **Unit 1 Test** |  |  | **Challenge Set #2 (Due)** | **Test #1**  **Unit 1** |

**TEXTBOOK HW ASSIGNMENTS**

|  |  |  |
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| **HW #** | **CHAPTER #** | **PROBLEM #** |
| **1** | **1** | **18-20, 44-48** |
| **2** | **2** | **12,13,15,30,31,53** |
| **3** | **2** | **19,49,50,62** |
| **4** | **3** | **11,16,35** |
| **5** | **4** | **11,14,43,44** |
| **6** | **4** | **27,29,31,32,35** |