

All the assignments on this sheet refer to the text: Cutnell & Johnson Physics 6<sup>th</sup> Edition. All odd numbered assignments have the answers posted in the back of the book. You are encouraged to strike out on your own and attempt additional problems as practice. The queries at the end of each chapter are broken into three or four categories: Conceptual Questions, Problems, Additional Problems, and Group Learning Problems. The Conceptual Questions are designed to get you thinking about the chapter's topic in a conceptual way. The assignments listed below are taken from the Problems section are designed to give you practice in solving quantitative puzzles. **All the assignments are drawn from the Problems section unless otherwise indicated.**

| HW # | Title                                 | pp  | Problems Assignment                   |
|------|---------------------------------------|-----|---------------------------------------|
| 1.   | Ch 1. Math Concepts                   | 20  | 7, 8, 12, 16, 18                      |
| 2.   | Ch 1. Math Concepts                   | 20  | 23, 24, 31, 36, 42, 46                |
| 3.   | Ch 2. 1D Kinematics                   | 49  | 3, 7, 9, 14, 15, 21                   |
| 4.   | Ch 2. 1D Kinematics                   | 49  | 23, 27, 40, 43, 58, 59, 60            |
| 5.   | Ch 3. 2D Kinematics                   | 75  | 13, 16, 21, 27, 35, 31                |
| 6.   | Ch 4. Forces & Newt. Law              | 116 | 5, 7, 11, 13, 14                      |
| 7.   | Ch 4. Forces & Newt. Law              | 116 | 19, 20, 23, 24, 27                    |
| 8.   | Ch 4. Forces & Newt. Law              | 116 | 35, 38, 49, 50, 58                    |
| 9.   | Ch 5. Uniform Circ. Mot.              | 143 | 5, 7, 13, 16, 29                      |
| 10.  | Ch 6. Work & Energy                   | 174 | 3, 4, 7, 13, 15, 55, 57               |
| 11.  | Ch 6. Work & Energy                   | 174 | 26, 31, 34, 36, 37, 63, 64            |
| 12.  | Ch 7. Imp. & Momentum                 | 200 | 3, 5, 8, 16, 25, 30                   |
| 13.  | Ch 7. Imp. & Momentum                 | 200 |                                       |
| 14.  | Ch 10. Simp. Harm. Mot.               | 266 | 2, 4, 5, 15, 18, 27                   |
| 15.  | Ch 12. Heat & Transfer                | 366 | 4, 8, 9, 41, 54                       |
|      | Ch 13.                                | 372 | 3, 5, 7, 20, 21                       |
| 16.  | Ch 18. Electric Forces & Fields       | 543 | 2, 10, 13, 26, 32, 37, 42             |
| 17.  | Ch 19. Electric Potential             | 572 | 3, 8, 13, 28, 30, 36, 37              |
| 18.  | Ch 20. Electric Circuits              | 612 | 3, 5, 10, 13, 17                      |
| 19.  | Ch 21. Magnetic Forces                | 653 | 3, 6, 7, 10, 11, 17<br>47, 48, 27, 26 |
| 20.  | Ch. 16 Waves and Sound                | 478 | 6, 8, 35, 37, 38, 72, 71, 89          |
| 21.  | Ch. 17 Superposition And Interference | 507 | 3, 6, 12, 17, 19, 20, 34              |
| 22.  | Ch. 24 Light Waves                    | 745 | 8, 12, 28, 21, 31                     |
| 23.  | Ch. 25 Mirrors                        | 769 | Handout                               |
| 24.  | Ch. 26 Lenses                         | 811 | 14, 20, 27, 45, 49, 50                |
| 25.  | Ch. 27 Light Interference             | 850 | 2, 5, 20, 23, 31, 41                  |
| 26.  | Ch. 29 Photoelectric Effect           | 900 | 2, 7, 14, 22, 24, 32, 35              |
| 27.  | Ch. 32 Cosmology and the number "42"  |     | T.B.A                                 |