

# CP Chemistry Assignments – S1

Mr. Carman

<http://www.kentschools.net/ccarman/>

2010-2011

## 1<sup>st</sup> Quarter

	Learning Target	Quiz #	Chapter	Book Assignment
DC	Definition of Chemistry	1	1.1	p.6 #1-3; p.14 #4-7; p.25 #16-19
HPS	History & Philosophy of Science	1	-	p.26 #33-37
SM	Scientific Method	1	1.3	p.17 #8-11; p.26 #23-26, #29-32; p.130 #60
LM/E/R	Laboratory Methods/Equipment/Reports	2	-	-
DPM	Definition and Properties of Matter	3	2.1-2.3, 3.4	p.31 #1-2, 4; p.35 #7-12; p.40 #14-18; p.47 #24-28, 30-33, 38-42, p.72 #25-28
PCC	Physical & Chemical Changes	3	2.1, 2.2, 2.4	p.31 #3; p.43 #19-20; p.47-48 #29, 34-35, 43, 46
CM	Conservation of Mass	3	2.4	p.43 #21 & 23; p.47 #36-37
HMA	Historical Models of the Atom	4	5.1, 5.2, 13.1	p.108 #1-3; p.112 #4-6; p.129 #33-36, 52, 54; p.366 #1-3; p.386 #20-21
MSA	Modern Structure of the Atom	4	5.3, 13.3	p.121 #18-25; p.129 #37-46, 50-51; p.386 #23-24
PT	Periodic Table	5	5.4, 14.1-14.2	p.126 #27-28; p.129 #47-48; p.396 #3, 5; p.406 #6-7, 9; p.409 #10, 12, 17-23, 26-27
EGF	Elemental Groups & Families	5	5.4	p.126 #29-32; p.129 #49
NIC	Naming Ionic Compounds	6	6.1-6.4	p.137 #3-6, 8-9; p.148 #20-23; p.156 #32-36; p.163 #43; p.166-7 #45-48, 52-62, 67-
NM	Naming Molecules	6	6.1, 6.5	p.137 #7; p.160 #39, 41; p.167-8 #63-64, 66, 76
CR	Chemical Reactions	7	8.1	p.211 #11; p.232-3 #32-34
WE	Writing Equations	7	8.1	p.211 #9; p.232-3 #35, 55*, 61* <i>* do not balance</i>
IPR	Identifying & Predicting Reactions	7	8.2	p.224 #22-24; p.232-3 #40-51*, 56-60* <i>* do not balance</i>

+ 1<sup>st</sup> Quarter Project: poster presentation

## 2<sup>nd</sup> Quarter

	Learning Target	Quiz #	Chapter	Book Assignment
<b>SI</b>	SI Units	<b>8</b>	<b>3.1, 3.3</b>	p.53 #1-4; p.67 #17-22; p.78-9 #36, 50-59, 70
<b>UC</b>	Unit Conversion	<b>8</b>	<b>3.3, 3.5, 4.2, 4.3</b>	p.75 #32-35; p.95 #16, 18-19; p.100 #28, 30; p.103 #40, 43, 46
<b>APE</b>	Accuracy, Precision & Error	<b>8</b>	<b>3.2</b>	p.62 #13, 16; p.78-9 #37-40, 46-48, 66
<b>MM</b>	Molar Masses	<b>9</b>	<b>7.1, 7.2</b>	p.181 #11-15; p.186 #24, 27; p.198 #50, 51, 55-57
<b>MaR</b>	Mass Ratios	<b>9</b>	<b>7.3</b>	p.195 #39-42; p.198 #60-62
<b>PC</b>	Percent Composition	<b>9</b>	<b>7.3</b>	p.195 #39-42; p.198 #60-62
<b>BE</b>	Balancing Equations	<b>10</b>	<b>8.1</b>	p.211 #10, 12; p.232 #38-39, 43-44, 47-48, 50; p.233 #51, 54-61
<b>MoR</b>	Mole Ratios	<b>10</b>	<b>9.1</b>	p.241 #6-8; p.262 #33-34, 36, 40
<b>MC</b>	Molar Conversions	<b>11</b>	<b>9.2</b>	p.250 #19; p.262 #37
<b>MaC</b>	Mass Conversions (Stoichiometry)	<b>11 &amp; 12</b>	<b>9.2</b>	p.250 #21, 22c; p.262-3 #38-39, 41a-b, 51-52
<b>VC</b>	Volume Conversions (Stoichiometry)	<b>12</b>	<b>9.2</b>	p.250 #22a-b; p.262-3 #41c, 56
<b>LR</b>	Limiting Reagents	<b>12</b>	<b>9.3</b>	p. 259 #29, 32; p. 262-3 #43-46, 48, 53, 54b
<b>PY</b>	Percent Yield	<b>12</b>	<b>9.3</b>	p.259 #30-31; p.262-3 #47, 49-50, 54a, 55

+ 2<sup>nd</sup> Quarter Project: powerpoint presentation

# CP Chemistry Assignments – S2

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## 3<sup>rd</sup> Quarter

Learning Target	Quiz #	Chapter	Book Assignment
<b>SM</b> States of Matter	<b>13</b>	<b>10.1-10.3</b>	p.272 #3-7; p.279 #8-13 p.283 #14-16; p.289 #20, 25-37, 39-41; p.290 #50-54
<b>CS</b> Changes of State	<b>13</b>	<b>10.3-10.4</b>	p.286 #17-19; p.289 #25-35 & #39-47
<b>HCC</b> Heat Capacity & Calorimetry	<b>14</b>	<b>11.1</b>	p.299 #4-10; p.322-3 #36-45, 64
<b>CHC</b> Calculating Heat Changes (Thermochemistry)	<b>15</b>	<b>11.2-11.4</b>	p.306 #15-19; p.313 #26-29; p.322 #51-54; p.323 #63, 65-67, 70-73; p.496 #24-26, 28, 30, 50
<b>PG</b> Properties of Gases	<b>16</b>	<b>12.1, 12.2, 12.5</b>	p.289 #21-24; p.328 #1-4; p.332 #5-9; p.353 #39-44; p.356 #45-50, 55, 63-66
<b>CGL</b> Combined Gas Law	<b>16 &amp; 17</b>	<b>12.3</b>	p.340 #18-21; p.356 #51-54, 56-58, 71
<b>IGL</b> Ideal Gas Law	<b>17</b>	<b>12.4</b>	p.346 #26-30; p.356 #59-62
<b>NC</b> Nuclear Chemistry	<b>18</b>	<b>28.1-28.2, 28.4</b>	p.844 #1-3; p.851 #7-9; p.861 #16-21; p.864 #22-32, 37-40, 42-44; p.865 #45, 47-48, 50
<b>HLC</b> Half-Life Calculations	<b>18</b>	<b>28.2</b>	p.851 #6, 10; p.856 #11-15; p.864-5 #34-36, 49
<b>NP</b> Nuclear Power	<b>19</b>	<b>28.3</b>	p.856 #11-15; p.864-5 #41, 46
<b>AB</b> The Atomic Bomb	<b>19</b>	-	-

+ 3<sup>rd</sup> Quarter Project: website creation & sharing

## 4<sup>th</sup> Quarter

Learning Target	Quiz #	Chapter	Book Assignment
<b>WAS</b> Water & Aqueous Systems	<b>20</b>	<b>17.1-17.4</b>	p.478 #1-3; p.481 #5-6; p.488 #10-14; p.493 #15-18; p.496 #19-23, 27, 29, 31-36, 38-46, 49; p.497 #51, 53-57, 59-60
<b>PS</b> Properties of Solutions	<b>20</b>	<b>17.3, 18.1, 18.3-18.4</b>	p.508 #3-7; p.525 #38; p.528-9 #40-47, 57, 66, 71
<b>CPS</b> Colligative Properties of Solutions	<b>20</b>	<b>18.3</b>	p.519 #24-27; p.528 #61
<b>CoSM</b> Concentration of Solutions: Molarity	<b>21</b>	<b>18.2</b>	p.515 #18-19, 21-22
<b>CoSD</b> Concentration of Solutions: Dilutions	<b>21</b>	<b>18.2</b>	p.528 #49-54
<b>PCoS</b> Percent Concentration of Solutions	<b>21</b>	<b>18.2</b>	p.515 #20, 23; p.528-9 #53-54, 77
<b>PAB</b> Properties of Acids & Bases	<b>22</b>	<b>20.1, 20.3-20.4</b>	p.579 #3-5; p.599 #21-25; p.605 #28, 33; p.609-610 #34, 36-38, 43-46, 50-52, 54, 57, 60-61, 67
<b>CPH</b> Calculating pH	<b>22</b>	<b>20.2</b>	p.593 #16, 17a-b; p.609 #39, 41-42
<b>ABR</b> Acid/Base Reactions	<b>23</b>	<b>20.2-20.4</b>	p.599 #23, 25; p.605 #32; p.609 #35, 43, 47-49, 58; p.610 #64-65
<b>NR</b> Neutralization Reactions	<b>23</b>	<b>21.1</b>	p.624 #17-22; p.640 #36-39, 42-45, 56; p.641 #57-58, 60-63, 70
<b>HC</b> Hydrocarbon Compounds	<b>24</b>	<b>25.1-25.2, 25.4</b>	p.751 #7-10; p.752 #11-13; p.761 #20-23; p.768 #28-36; p.769 #43-44, 49-50, 52;
<b>FGP</b> Functional Groups & Polymers	<b>24</b>	<b>26.1-26.4</b>	p.777 #1-6; p.784 #7-12; p.794 #13-16; p.800 #17-19; p.804 #20-25, 27, 30 p.805-6 #35, 42, 44, 47, 48, 50

+ 4<sup>th</sup> Quarter Project: research paper