

Braemar College
Units 3 & 4 Chemistry
Set Questions from Heinemann Chemistry 2

Unit 3, Area of Study 1: Chemical Analysis

| Batch | Chapter | Topic | Questions |
|-------|---------|--|--|
| 1 | 1 2 | <ul style="list-style-type: none"> • Qualitative & Quantitative Analysis • Water Content | <ul style="list-style-type: none"> • p.5 Q.1; p.8 Q.2 • p.9 Q.4-6 |
| 2 | 2 | <ul style="list-style-type: none"> • Mole Concept • Gravimetric Analysis | <ul style="list-style-type: none"> • p.15 Q.6-9; pp.25-26 Q.19-29, 31-36 & 46-48 • p.26 Q.38, 40-45 |
| 3 | 2 3 | <ul style="list-style-type: none"> • Mole Concept • Mole Concept (Solutions) | <ul style="list-style-type: none"> • p.18 Q.10-13; p.21 Q.14-16 • p.30 Q.1b, 2a, 3b 4, 5a&b, 7 & 8 |
| 4 | 3 | <ul style="list-style-type: none"> • Volumetric Analysis | <ul style="list-style-type: none"> • pp.33-34 Q.1, 11a, 12, 13, 15, 16-20a, 21 & 23 |
| 5 | 4 | <ul style="list-style-type: none"> • Acids & Bases | <ul style="list-style-type: none"> • p.38 Q.1-5; p.45 Q.10-11 |
| 6 | 4 | <ul style="list-style-type: none"> • Volumetric Analysis of Acids & Bases | <ul style="list-style-type: none"> • p.42 Q.6; p.45 Q.12, 13, 16, 17-23 |
| 7 | 4 5 | <ul style="list-style-type: none"> • Back Titrations • Redox | <ul style="list-style-type: none"> • p.46 Q.25-28 • p.51 Q.1-2, p.54 Q.3-6, p.55 Q.7-8; p.58 Q.14, 17 & 19 |
| 8 | 5 | <ul style="list-style-type: none"> • Redox Titrations | <ul style="list-style-type: none"> • p.58 Q.15; p.57 Q.12-13; p.59 Q.24; p.58-60 Q.20, 22, 23, 25, 26, 29, 30, 31, 33 & 34 |
| 9 | 6 | <ul style="list-style-type: none"> • Chromatography | <ul style="list-style-type: none"> • p.72 Q.3, 5 & 7 |
| 10 | 6 | <ul style="list-style-type: none"> • Chromatography | <ul style="list-style-type: none"> • pp.72-73 Q.9&10; p.71 Q.2; pp.73-75 Q.11, 13, 14, 17-21 |
| 11 | 7 | <ul style="list-style-type: none"> • Spectroscopy (Atomic Emission) | <ul style="list-style-type: none"> • p.81 Q.1-4; p.106-107 Q.19-20 |
| 11 | 7 | <ul style="list-style-type: none"> • Spectroscopy (AAS & UV-Vis) | <ul style="list-style-type: none"> • p.88 Q.6-12; pp.106-107 Q.23-26 (Q.24 has errors in it and is difficult – extension only) |
| 12 | 7 | <ul style="list-style-type: none"> • Spectroscopy (IR) | <ul style="list-style-type: none"> • p.96 Q.13-15; p.107 Q.27-31 |
| 13 | 7 | <ul style="list-style-type: none"> • Spectroscopy (NMR) | <ul style="list-style-type: none"> • p.105 Q.16,18; p.109 Q.40; pp.107-109 Q.32-39 |
| 14 | 8 | <ul style="list-style-type: none"> • Mass Spectrometer | <ul style="list-style-type: none"> • p.114 Q.1-5, p.119 Q.8, p.122 Q.12&13 |
| 15 | 8 | <ul style="list-style-type: none"> • Mass Spectrometer & Spectroscopy | <ul style="list-style-type: none"> • p.114 Q.1-5, p.119 Q.8, p.122 Q.12&13 |