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Year 12 Chemistry Self-Assessment Topic 1: Monitoring the Environment

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| **Learning Intention** | **Formative Test Question** | **Chapter Questions** | **Proficiency** | **Comments/questions** |
| Greenhouse effect | 1(a) | 1-3 |  |  |
| Global warming | 1(b) | 4-6 |  |  |
| Ocean acidification | 1(d),5(a) | 7-11 |  |  |
| Acid-carbonate reactions | 1(c)  | 12-13 |  |  |
| Nitrogen oxides and photochemical smog | 2 | 14-15 |  |  |
| Unit conversion | 3(a)(iii)-(iv), 7(a)(iii) | 16-18 |  |  |
| Stoichiometric calculations | 3(a)(i)-(ii) | 19-22 |  |  |
| Titration skills | 3(b)-(c)  | 23-30 |  |  |
| Chromatography techniques | 4(b) | 31(b),32(c), 33(d),34(b), 35(b),36(b) |  |  |
| Rf values and retention times | 4(a),6(a)-(b) | 31-36 |  |  |
| Ion exchange | 5(b)-(c)  | 37-39 |  |  |
| Electron configuration | 7(d) | 40 |  |  |
| Unique wavelengths | 7(b) | 41(e) |  |  |
| Atomic absorption spectroscopy | 7(a)(i)-(ii),7(c)  | 41-42 |  |  |