# Starters for 10: Sgiliau pontio – atebion

## Cynnwys

### Cymwyseddau cemeg sylfaenol

* + 1. Cydbwyso hafaliadau
    2. Llunio fformiwlâu ïonig
    3. Llunio hafaliadau o destun

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## 0.1.1 Cybdwyso hafaliadau

*Dylid derbyn lluosrifau neu ffracsiynau priodol, 1 marc yr un.*

|  |  |  |
| --- | --- | --- |
| **1.** 2C + …..O2 |  | 2CO |
| **2.** 2Ba + 2H2O |  | 2Ba(OH)2 + …..H2 |
| **3.** …..C2H6 + 3.5O2 |  | 2CO2 + 3H2O |
| **4.** 2HCl + …..Mg(OH)2 |  | …..MgCl2 + 2H2O |
| **5.** …..N2 + …..O2 |  | 2NO |
| **6.** 2Fe2O3 + …3C |  | 4Fe + 3CO2 |
| **7.** …..CH3CH2OH + 2[O] |  | …..CH3COOH + …..H2O |
| **8.** 2HNO3 + …..CuO |  | …..Cu(NO3)2 + H2O |
| **9.** …..Al3+ + 3e– |  | …..Al |
| **10.** 2Fe(H2O)63+ + 3CO32– |  | 2Fe(OH)3(H2O)3 + 3CO2 + 3H2O |

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## 0.1.2 Llunio fformiwlâu ïonig

**1.**

a. Mg2+ O2– = MgO *(1 marc)*

b. Na+ SO42– = Na2SO4 *(1 marc)*

c. Ca2+ OH– = Ca(OH)2 *(1 marc)*

d. Al3+ O2– = Al2O3 *(1 marc)*

e. Cu+ O2– = Cu2O *(1 marc)*

**2.**

a. SO42– *(1 marc)*

b. NO3– *(1 marc)*

c. PO43–  *(1 marc)*

d. HCOO– *(1 marc)*

e. CO32– *(1 marc)*

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## 0.1.3 Llunio hafaliadau o destun

*1 marc yr un; dylid derbyn lluosrifau ar gyfer pob un heblaw cwestiwn 9.*

|  |  |  |
| --- | --- | --- |
| **1.** 3Si + 2N2 |  | Si3N4 |
| **2.** H2SO4 + 2NaOH |  | Na2SO4 + 2H2O |
| **3.** B + 1.5Cl2 |  | BCl3 |
| **4.** N2 + O2 |  | 2NO |
| **5.** C2H5OH + 3O2 |  | 2CO2 + 3H2O |
| **6.** SiO2 + C + 2Cl2 |  | SiCl4 + CO2 |
| **7.** Fe2O3 + 3CO |  | 2Fe + 3CO2 |
| **8.** CH4 + 2O2 |  | CO2 + 2H2O |
| **9.** 0.5Cl2 + 1.5F2 |  | ClF3 |
| **10.** 2NO2 + H2O + 0.5O2 |  | 2HNO3 |