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| Particle and Mole Relationships (cont.) | | | | | | | | |
| | Table 11.1Relationships Derived from a Balanced Chemical Equation | | | | | | | |
| | 4Fe(s) | + | 30 ₂ (g) | \rightarrow | 2Fe ₂ O ₃ (s) | | | |
| | iron | + | oxygen | \rightarrow | iron(III) oxide | | | |
| | 4 atoms Fe | + | 3 molecules O ₂ | \rightarrow | 2 formula units Fe_2O_3 | | | |
| | 4 mol Fe | + | $3 \text{ mol } O_2$ | \rightarrow | 2 mol Fe ₂ O ₃ | | | |
| | 223.4 g Fe | + | 96.00 g O ₂ | \rightarrow | 319.4 g Fe ₂ O ₃ | | | |
| | 319.4 g reactants | | | \rightarrow | 319.4 g products | | | |
| | epts In Motion here to view an animated ersion of this graphic. | | | | + | → | | |



















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