



| Assessment grid | | | |
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| Subject: Science | | Year: 8 | Topic/module: Chemical Reactions 2 |
| KS4 target direction | 4 | 6 | 8(9) |
| Advanced | Enrichment/extension – reaching, or part of, next pathway → Features of work may include: | Enrichment/extension – reaching, or part of, next pathway → Features of work may include: | Enrichment/extension Features of work may include: |
| Secure <i>Students must achieve competence in all statements before being judged 'Secure'</i> | Secure The student can: <ul style="list-style-type: none">Describe what happens when metals react with acidsIdentify state symbols from an equation.State the product of the reaction between metals and oxygenState the products of the reaction between metals and waterState where different metals are found in the reactivity seriesCalculate the percentage of waste material in a metal ore.List the properties and uses of ceramicsState some uses of polymersState some uses of composite materials | Secure The student can: <ul style="list-style-type: none">Explain the test for hydrogen gasUse state symbols in balanced formula equationsUse the reactivity series to predict reactionsUse the reactivity series to explain displacement reactions.Use the reactivity series to decide which metals can be extracted from their ores by heating with carbonCalculate the amounts of metals in oresExplain why properties of ceramics make them suitable for their usesExplain how polymer properties make them suitable for their usesExplain why composite properties make them suitable for their uses. | Secure The student can: <ul style="list-style-type: none">Use word and formula equations to explain the test for hydrogen gasConstruct balanced equations that include state symbolsLink a metal's reaction with its place in the reactivity series.Use particle models and diagrams to represent displacement reactionsExplain why metals can be extracted using carbon, using the idea of displacementConvert amounts of metals within ores from masses to percentages, or vice versa.Distinguish between chemical and physical properties of ceramicsSuggest advantages and disadvantages of composite properties |
| Developing | Mostly secure – one or more gaps For example: | Mostly secure – one or more gaps For example: | Mostly secure – one or more gaps For example: |
| Beginning | Significant gaps | Significant gaps | Significant gaps |