8G Metals and their Uses

Draw a ring around a number of stars for each statement. If you are very confident about a statement, draw your ring around all the stars. If you do not know anything about a statement do not draw a ring.

| Topic | At the end of the unit: |  |
| --- | --- | --- |
| 8Ga | | |
|  | Describe the physical and chemical properties of metals and relate them to their uses. | \* \* \* \* \* |
|  | Recall some reactions that happen slowly and some that happen quickly. | \* \* \* \* \* |
|  | Describe what catalysts do and some applications of catalysts. | \* \* \* \* \* |
|  | Write word equations for reactions between metals and non-metals. | \* \* \* \* \* |
| 8Gb | | |
|  | Describe what happens when metals react with oxygen. | \* \* \* \* \* |
|  | State the meaning of corrosion and rusting. | \* \* \* \* \* |
|  | Explain how barrier methods (e.g. painting) can be used to stop rusting. | \* \* \* \* \* |
|  | Model reactions using word equations. | \* \* \* \* \* |
|  | Show the products or reactants in a reaction as formulae. | \* \* \* \* \* |
| 8Gc | | |
|  | Describe the test for hydrogen. | \* \* \* \* \* |
|  | Write word equations for the reactions of metals with water. | \* \* \* \* \* |
|  | Use the reactions of metals with water to create an order of reactivity. | \* \* \* \* \* |
| 8Gd Working Scientifically | | |
|  | Explain how to improve the accuracy of an investigation. | \* \* \* \* \* |
|  | Identify repeated measurements and explain the importance of repeatable, reproducible and reliable data. | \* \* \* \* \* |
| 8Gd | | |
|  | Describe what happens when metals react with acids. | \* \* \* \* \* |
|  | Write word equations for the reactions of metals with different acids. | \* \* \* \* \* |
|  | Use the reactions of metals with acids to create an order of reactivity. | \* \* \* \* \* |
|  | Model simple reactions using symbol equations. | \* \* \* \* \* |
| 8Ge | | |
|  | Describe what happens at a material's melting, freezing and boiling point. | \* \* \* \* \* |
|  | Describe what is meant by a pure substance and how melting and boiling points can identify pure substances. | \* \* \* \* \* |
|  | State, with examples, the meaning of an alloy and explain why alloys are made. | \* \* \* \* \* |
|  | Use models to explain why alloys are stronger than the pure metal. | \* \* \* \* \* |

What could you do to improve?