

High Tunstall College of Science Curriculum Intent

Subject: Metals and their properties Year: 9

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|  | **Topic: Metals and their properties** | **Progress** | | |
| **Topic** | **Key ideas** | **R** | **A** | **G** |
| Metals and their properties | I can use tools and equipment safely. |  |  |  |
| I can create a piece of jewellery fit for purpose. |  |  |  |
| I can use finishing techniques to present my practical work. |  |  |  |
| I can evaluate my work and produce a diary of production to show how I could  improve. |  |  |  |

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| Lesson | Learning Focus | Assessment | Key Words |
| 1    2      3    4/5  6 | **Analyse a design brief and research metals and their working properties.**  **Research into existing products and use them to create designs.**  **Write a specification which is specific to the users needs and wants**  **Create a piece of jewellery safely using a variety of tools and equipment.**  **Complete end of topic assessment and evaluate the piece of jewellery**  **Evaluate the piece of jewellery and complete the deep mark.** | End of topic assessment  Final outcome  Deep mark  Written specification | Design Brief  Specification  Materials  Properties  Ductile  Conductive  Malleable  Strength  Toughness  Hardness  Brittleness  Casting  Engraving  Embossing  Mitre joint  Tolerance  Manufacturing  Millimetres  Ferrous  Non ferrous |