

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 couldimprove. |   |   |   |

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| Lesson | Learning Focus | Assessment | Key Words |
| 1  2  3 4/56 | **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 assessmentFinal outcomeDeep markWritten specification | Design BriefSpecificationMaterialsPropertiesDuctileConductiveMalleableStrengthToughnessHardnessBrittlenessCastingEngravingEmbossing Mitre jointToleranceManufacturingMillimetresFerrousNon ferrous |