**Design and Technology**

**Year 3**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  |  | | --- | --- | | Date: | | | Big Question: | **How can we test mock ups inspired by Ludwig Mies Van Der Rohe?** | | Takeaways | | | * To use research to inform knowledge of stable structures. * To use knowledge of construction and joining materials to test mock ups. | | |  | | |

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  |  | | --- | --- | | Date: | | | Big Question: | **How can we construct an Iron Age House replica? DOUBLE SESSION** | | Takeaways | | | * To use a design brief to evaluate how stable their product is, using this to suggest a design improvement. * To know how to create a hidden join. * To select suitable construction to create a free-standing structure. | | |  | | |

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  |  | | --- | --- | | Date: | | | Big Question: | **How do buttresses make a structure stable?** | | Takeaways | | | * To use knowledge of construction and joining materials to test mock ups. * To know how to score using scissors. * To know that a buttress is placed against a wall to make a structure more stable. | | |  | | |

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  |  | | --- | --- | | Date: | | | Big Question: | **How can we create hidden joins?** | | Takeaways | | | * To use knowledge of construction and joining materials to test mock ups. * To know how to create a hidden join. | | |  | | |

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  |  | | --- | --- | | Date: | | | Big Question: | **How can we design an Iron Age House replica?** | | Takeaways | | | * To apply their knowledge of mock-up evaluation in their designs. * To communicate their designs using labelled sketches and ordered steps. | | |  | | |

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  |  | | --- | --- | | Date: | | | Big Question: | **How did the Ancient Egyptians develop food processes?** | | Takeaways | | | * To know that the Ancient Egyptians developed fermentation. | | |  | | |

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  |  | | --- | --- | | Date: | | | Big Question: | **How are structures made stable and strong?** | | Takeaways | | | * To know how to score using scissors. * To know that the shape and size of a structure’s base affects its stability. | | |  | | |