Design Technology: STEM

Foundation Stage Scheme of Work

Year 7 Design Skills		16 Lessons/ 8 Weeks	
Stage	Description		
	Design	Make	Evaluate
Emerging	Responds to the theme with superficial and limited ideas. GENERATING DESIGN IDEAS One or two designs partially completed, with limited reference to Function/3 R's/ Formal elements CREATING FINAL DESIGN Attempted design partially completed, with limited reference to Function/3 R's/ Formal elements	MANUFACTURING FINAL PIECE Demonstrates limited accuracy. Limited consideration of finishing skills. Product has limited functionality Supervision & prompts needed to produce an outcome. USE OF 2D SOFTWARE TO PRESENT IDEAS Produces a 2D drawing using nominated software package Limited evidence/ use of editing and creativity.	FINAL PIECE EVALUATION Limited evaluation of techniques, processes and performance, which is purely descriptive with no suggested improvements. Quality Control is limited.
Developing	 CREATING MOODBOARD Responds to the theme with a range of basic ideas. GENERATING DESIGN IDEAS One or two designs partially completed, with basic reference to Function/3 R's/ Formal elements CREATING FINAL DESIGN Attempted design completed, with basic reference to Function/3 R's/ Formal elements 	 MANUFACTURING FINAL PIECE Demonstrates basic accuracy. Basic consideration of finishing skills. Product has basic functionality Some support needed to produce an outcome. USE OF 2D SOFTWARE TO PRESENT IDEAS Produces a 2D drawing using nominated software package Basic evidence/ use of editing and creativity. 	Basic evaluation of techniques, processes and performance, which is purely descriptive with no suggested improvements. Basic application of quality control.
Secure	CREATING MOODBOARD Responds to the theme with a range of relevant ideas. GENERATING DESIGN IDEAS One or two skilful designs completed, with relevant reference to Function/3 R's/ Formal elements CREATING FINAL DESIGN Appropriate and skilful design completed, with relevant reference to Function/3 R's/ Formal elements	 MANUFACTURING FINAL PIECE Demonstrates a good level of accuracy. Demonstrates a good level of finishing skills. Works largely independently to produce a good quality outcome. USE OF 2D SOFTWARE TO PRESENT IDEAS Produces a Good quality 2D drawing using nominated software package Good evidence/ use of editing and creativity. 	FINAL PIECE EVALUATION Good attempt has been made to evaluate techniques, processes and performance but is mainly descriptive with some suggestions for improvement. Suitable quality control checks are applied.

CREATING MOODBOARD

• Responds to the theme with a wide range of relevant and creative ideas.

GENERATING DESIGN IDEAS

• Two skilful designs completed, with relevant and creative reference to Function/3 R's/ Formal elements

CREATING FINAL DESIGN

 Appropriate and skilful design completed, with relevant and creative reference to Function/3 R's/ Formal elements

MANUFACTURING FINAL PIECE

- Demonstrates a high level of accuracy.
- Demonstrates a high level of finishing skills.
- Works completely independently to produce an effective, professional and high quality outcome.

USE OF 2D SOFTWARE TO PRESENT IDEAS

- Produces an excellent quality 2D drawing using nominated software package
- Excellent evidence/ use of competent editing and creativity.

FINAL PIECE EVALUATION

- A detailed evaluation of all techniques, processes and performance is presented with suggestions for improvements.
- Suitable quality control checks are consistently applied.