DT – Assessment – UKS2 Year B

Unit	Key Learning	Teacher Comments	Pupils working above – next steps	Pupils working just below – next steps	Pupils working below – next steps	% on track or above
Mechanical and Electrical Systems	**Substantive – Declarative Knowledge** **Mechanical and Electrical Systems** Develop and be able to use technical vocabulary appropriate to the project. Understand how electrical systems are used in different contexts. Incorporate a circuit into a model. Create more complex products that use electrical circuits and components (motor, buzzer, light etc). Program, monitor and control using ICT					
	Substantive – Procedural Knowledge (Know how) **Investigate** Research and evaluate existing products. Consider user and purpose. **Design** Understand why designers use CAD. Devise step by step plans which can be read/followed by someone else. Use and understand about more involved design strategies such exploded diagrams and cross-sectional diagrams to communicate ideas.					

	Understand the principles of iterative design. **Make** Develop one idea in depth. Make prototypes. Use researched information to inform decisions. Use a computer to model ideas **Evaluate** Report using correct technical vocabulary. Discuss how well the finished product meets the design criteria having tested on/discussed outcomes with the user.					
	<u>Disciplinary Knowledge (Think like)</u> **Mechanical and Electrical Systems** Use electrical systems such as motors and switches. Use vocabulary associated with projects appropriately with precision.					
	<u>Essential vocabulary</u> – circuit breakers, components, target audience, test					