Scartho Gateway Academy

Long-term plans – Design & Technology

	Autumn Term	Spring Term	Summer Term
Years 1 and 2 Cycle A	**Structures/ Mechanisms** Wheels and axles. Why do windmills go round and round?	**Textiles** How can we create a puppet show?	**Cooking and Nutrition** Where do fruits come from? Can they be eaten in different ways?
Years 1 and 2 Cycle B	**Structures** How can we make Baby Bear's chair stronger?	**Mechanisms** (wheels and axles) Do wheels only work on vehicles?	**Mechanisms** (levers, linkages and pivots) How can I make a toy move?
Years 3 and 4 Cycle A	**Structures** Constructing a castle: Can we recreate famous castle from around the world?	**Digital World** Wearable Technology What makes computer aided design so great?	**Cooking and Nutrition** Why should the food we eat change with the seasons?
Years 3 and 4 Cycle B	**Structures** (Pavilions) How can we strengthen frame structures?	**Mechanisms** Why are some cars faster than others?	**Electrical Systems** (light) How do lighthouses save lives?
Years 5 and 6 Cycle A	**Cooking and Nutrition** Can I make dinner?	**Electrical Systems** (motors) How does evaluating help me to problem solve?	**Mechanisms** Pop Up Books How can I make an interactive pop-up book?
Years 5 and 6 Cycle B	**Textiles** How can I make a themed stuffed toy?	**Structures** What mechanisms can be found at the playground?	**Digital World** What steps are taken to create a multifunctioning product for a client?