Wirksworth Junior School – Design and Technology Vocabulary Knowledge Progression

***** Key skills in grey are the key performance indicators. *****

Lower KS2 - Year A	Lower KS2 - Year B	Upper KS2 - Year A	Upper KS2 - Year B
Learning Focus			
Year 3/4 **Plan A** ***(Mechanisms: pulleys used in cranes)***	**Year 3/4** **Plan B** ***(Cooking and Nutrition. Making bread)***	**Year 5/6** **Plan A** ***(Electrical systems, gears and computing- microbits/crumble controllers and moving vehicles.)***	**Year 5/6** **Plan B** ***(Textiles- Upcycling)***
Big Question			
How have natural disasters led to change?	**How can small actions make a difference?**	**How will we live in the future?**	**Do we appreciate what we have?**
Tier 2 Vocabulary – Skill & *concept* linked			
Fairness Togetherness Change Sustainability Community Achievements Explore Communicate Opinions	Fairness Togetherness Change Sustainability Community Achievements	Fairness Togetherness Change Sustainability Community Achievements	Fairness Togetherness Change Sustainability Community Achievements
Conceptual Knowledge & Understanding			
Change *To make (someone or something) different; alter and change of the human and physical environment and the impact can be seen on humans*			
LKS2 - Year A • I know that cranes use pulleys and they help to move items that people together cannot move and change the way we live.	**LKS2 - Year B** • I know how to change the basic bread recipe to make other types of bread.	**UKS2 – Year A** • I know that gears help change the direction of movement and can help movement to become easier.	**UKS2 – Year B** • know sewing, weaving and knitting can change things into other objects.
Sustainability ***The avoidance of the depletion of natural resources in order to maintain an ecological balance. The ability to maintain at a certain rate.***			
LKS2 - Year A • I know cranes enable sustainability because	**LKS2 - Year B** • know the cost of making bread and the importance of not	**UKS2 – Year A** • I know that indigenous tribes can live sustainably in the Brazilian Rainforest.	**UKS2 – Year B** • I know the cost of designing and making clothes.

people are reusing materials to build other objects by making them one place to another.	wasting food, so food production is sustainability and can feed everyone.		• I know the importance of fair trade and buying clothing that is ethically sourced and made to improve sustainability. • I know how to upcycle clothing to produce a new outfit/item by cutting and sewing items together. • I know how to use plastic bags to create a new item by weaving or knitting. • I know upcycling will help the world become more sustainable and create less landfill/waste.
Achievements ***An achievement is a thing done successfully with effort, skill or courage.*** ***We learn about the achievements of mankind throughout geography so that we can understand how these accomplishments have had an impact on, and changed, the way in which we live today.***			
LKS2 - Year A • I know a crane for lifting heavy loads was developed by the Ancient Greeks in the late 6th century BC. • I know that a rotary movement turns around and a linear movement is up and down.	**LKS2 - Year B** • I know bread is bought by 99.8% of British households, and the equivalent of nearly 11 million loaves are sold each day.	**UKS2 – Year A** • I know that Richard Arkwright designed the first power driven water frame.	**UKS2 – Year B** • I know Edward Cartwright is the inventor of the first electric powered loom. • I know Anni Albers was influenced by the impressionist and designed fabrics. • I know William Morris designed wallpaper and fabrics, which was based around flowers. • I know Coco Chanel was a fashion designer who created a new style of clothing for women. • I know Nick Cave makes sound suits where the clothing makes a sound, which you can perform in.
Community ***A Community is the society, culture and way of life of a particular area and how the geography has shaped this*** ***A society is people living together in a community. Many different things make up a society's culture (e.g. music, arts, customs, beliefs, and religion). Geography is our surroundings and these can have a significant impact on how Community is forms and behaves.***			
LKS2 - Year A • I know the more pulleys used, reduces the forces needed to move an object and support	**LKS2 - Year B** • I know fair trade is about paying people a fair wage for the work they do and stickers on food labels tell me this is	**UKS2 – Year A** • I know the development of the gear changed how Community lived and mechanisms helped Community develop.	**UKS2 – Year B** • I know upcycling and reusing material to make other items makes Community aware of the importance of not wasting products and consumerism.

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Community to grow and work together.	being applied, to build a fair Community.		
Fairness and togetherness *Togetherness is the state of being close to another person or other people.* *Fairness is treating everyone as equals so everyone has an equal chance of achieving.*			
LKS2 - Year A I know that ***fairness and togetherness*** in DT is working together to design and make a project, and fairly and respectfully listening to others' opinions to help improve the design.	**LKS2 - Year B** I know that ***fairness and togetherness*** in DT is ensuring people are paid fairly for the work they complete and if we all share this opinion we can make a change in working conditions.	**UKS2 – Year A** I know that ***fairness and togetherness*** in DT is working together with others to design and make a project and fairly and respectfully listening to others' opinions to help improve the design.	**UKS2 – Year B** I know that ***fairness and togetherness*** in DT is working together with others to design and make a project; fairly and respectfully listening to others' opinions to help improve the design.
Tier 3 Vocabulary – Subject-specific			
Belts Counterweight Crane Driver Force Groove Hoist rope Mechanism Pulley Rotate Rotation Shaft	Crops Dough Fair trade Kneading Harvested Hygienic Mixed Rising Recipe Yeast	Direction Driver Gears Gear train Hydraulic power Movement Speed Water mill	Back stitch Cross stitch Loom Pin Sew Upcycle Weave