

Roseacre's Design and Technology curriculum at a glance.

		Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
			Structures		Mechanisms		Food
EYFS			Bridges Q: Can I create a bridge strong enough to walk across or for a particular purpose? Focus: Exploring simple materials in order to create a strong and stable structure.		Exploring parts that move - <i>pop up cards and split pin pictures</i> Q: 'How do things move?' & 'Which things move best?' Focus: Push, pull, lift, close, slide, spin, twist, pedal,		Fruit kebabs Q: Where the fruit or veg is from? Focus: Identify seasonal fruit to select and cut up to add to a kebab
Year 1			Den building Q: Can I build dens using different materials and see which is the best? Focus: Explore and use different materials and techniques to create strong and stable		Creating Spring Sliders (flowers, faces, animals, Easter Bunnies, mini beasts) Q: How can we make things slide in interesting ways? Focus: Mechanisms		Smoothies Q. 'Can you make a seasonal and healthy celebration smoothie?' Focus: Identify and select seasonal fruit and appropriate ingredients to make a healthy

			structures.		which can slide in different directions to create a card which celebrates Spring or Easter		smoothie with a specific celebration in mind.
Year 2			Structures that float Q: Can I make a boat, using a shell/raft structure that floats on the water? Focus: Explore different shapes.		Wheels and axle mechanisms Q: How can we build a vehicle that is good enough to win a race? Focus: Design and make a moving vehicle with wheels and axles.		Soup Q. How can we create a portable, warm snack to take on a picnic? Focus: To prepare a quick, nutritious and inexpensive hot meal suitable for a picnic
Year 3			Design and make a chair using different structure techniques. Q: Can I choose a structure technique and apply it to my chair design? Focus: Explore and consider appropriate		Levers Q: How can we move an object without touching it using the power of mechanisms? Product: to design and create a catapult/that can move a range of objects		Sandwiches, wrap, pitta, Q. How can we produce healthy, tasty finger food that is suitable to hold and transport to a picnic? Focus: How can the choice of the internal filling be supported

			structure design techniques that are fit for purpose.				appropriately by the bread, wrap etc?
Year 4			Structures-towers Q: Why do we build towers? Focus: Explore towers over time with a focus on different functions and features, compare and contrast, gather ideas for your own design.		Electronic Circuits: Create a lantern Q: Can you create light? Focus: Design and produce a product which generates light using an electronic circuit. (Any materials can be used here)		Dhal / cous cous Q. How can we hydrate an ingredient (lentils, chickpeas) to make it a suitable snack as an alternative to a sandwich? Focus: Hydration and dehydrated food products
Year 5			Structures that can fly Q: How long can your structure stay in the air? Focus: Investigate the forces involved in how planes fly and focus on aerodynamics		Cams & split pin levers: Q: How can you bring a moment from a story to life? Product: Cam operated moveable scene with characters containing split pin limbs.		Package free food - Pasties, samosas, Q: How can we make a waste free packed lunch Focus: Package free healthy snack

Year 6			Bridges Q: Can we create a bridge that is strong enough to hold weight? Focus: Exploring shape and design in order to create a strong and stable structure.		Pulleys Q: How can we create an aerial transport system to reduce pavement congestion in Blackpool. Focus: Aerial Tram line/ Chair lift		Breads Q How can we design and make bread from different cultures to share with others? Focus: Designing and making bread that can be shared
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