

## **Parkwood Primary School Design & Technology KPIs**

### **KS1:**

- Complete a variety of creative and practical activities to develop knowledge, understanding and skills needed to engage in the process of designing of and making
- Work in a range of relevant contexts (e.g. home and school, gardens and playgrounds, the local community, industry and the wider environment)

### **KS2:**

- Complete a variety of creative and practical activities to develop knowledge, understanding and skills needed to engage in the process of designing and making
- Work in a range of relevant contexts (e.g. the home and school, leisure, culture, enterprise, industry and the wider environment)

**One DT project needs to include the entire design, make and evaluate cycle.**

Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
<b>Design Knowledge and Skills</b>					
<ul style="list-style-type: none"> <li>• Know what a structure is</li> <li>• Draw and label a design</li> </ul>	<ul style="list-style-type: none"> <li>• Design a product using given design criteria as a guide</li> </ul>	<ul style="list-style-type: none"> <li>• Use given design criteria to design an aesthetic and functional product, aimed at particular individuals</li> </ul>	<ul style="list-style-type: none"> <li>• Develop design criteria to design an appealing and purposeful product, aimed at particular individuals</li> </ul>	<ul style="list-style-type: none"> <li>• Develop design criteria to design a purposeful, appealing and functional product</li> </ul>	<ul style="list-style-type: none"> <li>• Use CAD (TinkerCad), including how the design fits the design criteria</li> </ul>
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
<b>Make Knowledge and Skills</b>					
	<ul style="list-style-type: none"> <li>• Know that materials can be joined to make movement</li> </ul>		<ul style="list-style-type: none"> <li>• Know what a frame structure is</li> </ul>	<ul style="list-style-type: none"> <li>• Know how to join a pulley to a structure</li> </ul>	<ul style="list-style-type: none"> <li>• Know that structures can be strengthened by manipulating materials and shapes</li> </ul>
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
<b>Evaluate Knowledge and Skills</b>					
<ul style="list-style-type: none"> <li>• Decide if a product is functional</li> </ul>	<ul style="list-style-type: none"> <li>• Evaluate finished products against design criteria</li> </ul>	<ul style="list-style-type: none"> <li>• Evaluate existing products against design criteria (revisit from year 2)</li> </ul>	<ul style="list-style-type: none"> <li>• Use existing products to generate design criteria</li> </ul>	<ul style="list-style-type: none"> <li>• Adapt ideas after evaluation against their design criteria before creating their final product</li> </ul>	<ul style="list-style-type: none"> <li>• Adapt ideas after evaluation against their design criteria before creating their final product, taking into consideration the views of others</li> </ul>

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Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Technical Knowledge and Skills					
<ul style="list-style-type: none"> <li>Know what a mechanism is</li> </ul>	<ul style="list-style-type: none"> <li>Know what a mechanical system is</li> </ul>	<ul style="list-style-type: none"> <li>Know how pneumatic systems works (drawing in, releasing and compressing air)</li> </ul>	<ul style="list-style-type: none"> <li>Know what strengthen means</li> <li>Know what reinforce means</li> </ul>	<ul style="list-style-type: none"> <li>Know what a pulley does</li> </ul>	<ul style="list-style-type: none"> <li>Know how structures are strengthened, stiffened and reinforced in the context of real-life examples</li> </ul>
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Cooking and Nutrition Knowledge and Skills					
	<ul style="list-style-type: none"> <li>Know what is included in the portion plate: <ul style="list-style-type: none"> <li>Bread, cereal, pasta, potatoes</li> <li>Meat, fish and alternatives</li> <li>Fatty and sugary food</li> <li>Milk and dairy</li> <li>Fruit and vegetables</li> </ul> </li> </ul>		<ul style="list-style-type: none"> <li>Know how to prepare for cooking (clean hands, clean surfaces, hair tied back and clean equipment)</li> </ul>	<ul style="list-style-type: none"> <li>Know that I can adapt a recipe to make it healthier by substituting ingredients</li> </ul>	