



Everybody Excelling, Every Day, No Excuses!

D&T Learning Journey Randal Cremer Primary School



Design Come up with at least one idea, take account of ideas of others when designing. Produce a plan and explain it, suggest improvements and say what was good and not so good about my original design.

Make Show I am conscious of the need to produce something that will be liked by others? Show a good level of expertise when using a range of tools and equipment and explain how my product will appeal to the audience.

Evaluate Begin to explain how I can improve my original design. Evaluate my product, thinking of both appearance and the way it work. Practise my evaluation skills by evaluating existing products against set criteria?

Technical Knowledge **Textiles:** think what the user would want when choosing textiles. Think about how to make my product strong, devise a template and explain how to join things in a different way. **Cooking and nutrition:** say what to do to be hygienic and safe. Present my product in an interesting way?

Electrical & mechanical components: Select the most appropriate tools and techniques to use for a task. Make a product which uses both electrical and mechanical components? Use a simple circuit, a number of components and add things to my circuits.



Design Show design meets a range of requirements, put together a step-by-step plan which shows the order and also what equipment and tools I need. Describe design using accurately labelled sketch and words. Say how realistic my plan is and take account of the ideas of others when designing.

Make Use equipment and tools accurately and say if my finished product is going to be good quality.

Evaluate How I will check if my design is successful? Begin to explain how I can improve my original design and practise my evaluation skills by evaluating existing products.

Technical Knowledge **Join** textiles of different types in different ways, Choose textiles both for their appearance and qualities?

Cooking and nutrition: Choose the right ingredients, use equipment safely, make the product look attractive. Describe how combined ingredients come together. Grow plants such as cress and herbs from seed with the intention of using them for my food product?

Stiff and flexible sheet materials Use the most appropriate materials, work accurately to make cuts and holes and join materials?

Design and Technology Journey from EYFS to Year 6



Design Think of ideas and plan what to do next, choose the best tools and materials and explain choice. Describe design by using pictures, diagrams, model mock-ups, words and ICT. Design a product for others following a design criteria?

Make Explain what I am making and why my audience will like it. Join things together in different ways. Choose materials and explain why they are being used depending on their characteristics.

Evaluate Describe what went well. Evaluate what I would do differently if I did it again and why. Judge my work against the design criteria.

Technical Knowledge **Mechanisms:** join materials together as part of a moving product, add a specific design, use axles and wheels.

Textiles: measure, cut and join textiles to make something. Explain choices.

Design Think of own ideas, explain and describe using words and pictures. Follow design criteria.

Make Select tools, equipment and materials to cut, shape, join and finish. Explain choices.

Evaluate Describe how existing products work, talk about own work linked to what I was asked to do and that other people have done.

Technical knowledge **Use of materials:** Measure materials, join material in different ways, use joining, folding or rolling to make it stronger. Use levers or slides.

Cooking and nutrition: Describe the properties of the ingredients I am using and why it is important to be varied in my diet. Explain what it means to be hygienic? Say where food comes from.

- Constructs with a purpose in mind, using a variety of resources.
- Uses simple tools and techniques competently and appropriately.
 - Selects appropriate resources and adapts work where necessary.
 - Selects tools and techniques needed to shape, assemble and join materials they are using.
 - They use and explore a variety of materials, tools and techniques.
 - They represent their own ideas, thoughts and feelings through design and technology.

Design Come up with a range of ideas after collecting information. Take a user's view into account when designing. Produce a detailed step-by-step plan. Suggest alternative plans and say what the good points and drawbacks are. Use cross sectional planning to show my design and produce prototypes to show my ideas.

Make Explain why finished product is going to be of good quality and appeal to the audience. Use a range of tools and equipment expertly. Think about the aesthetic qualities and functionality of my work.

Evaluate Keep checking that my design is the best it can be and whether anything could be improved. Evaluate appearance and function against the original criteria. Test and evaluate final product and say if it is fit for purpose. Practise my evaluation skills by evaluating existing products against criteria which I have set?

Technical Knowledge **Stiff and flexible sheet materials:** Measure carefully so as not to make mistakes. Attempt to make my product strong.

Cooking and nutrition: describe what I do to be both hygienic and safe and present my product well.

Mouldable materials: Take time to consider how I could have made my idea better. Work at my product even though their original idea might not have worked?

Design Use a range of information to inform my design. Use market research to inform plans and work within constraints. Follow and refine my plan if necessary and justify my plan to someone else. Consider culture and society in my designs. Use exploded diagrams to show my designs and use computer aided designs to show my ideas.

Make Use tools and materials precisely. Change the way I am working if needed. Think about the aesthetic qualities And functionality of my work?

Evaluate Test and evaluate my final product and say if it is fit for purpose. Evaluate what would improve it, eg different resources. Say if I would need more or different information to make it even better. Practise my evaluation skills by evaluating existing products against criteria which I have set?

Technical Knowledge **Electrical & mechanical components:** Incorporate a switch, refine my product after testing. Incorporate hydraulics and pneumatics, use different kinds of circuit in my product, think of ways in which adding a circuit would improve my product?

Mouldable materials: Consider the use of the product when selecting materials. Say how my product meet all design criteria.

Stiff and flexible sheet materials: Measure accurately enough to ensure that everything is precise. Ensure that my product is strong and fit for purpose?

Textiles: Think what the user would want when choosing textiles, make my product attractive and strong. Make up a prototype first, use a range of joining techniques. Think about how my product could be sold. Give considered thought about what would improve my product even more?