



# CEC Key Stage 2 Learning Journey: D and T

**Spring Term**

**Summer Term**

Extra Curricular

- Drawing Club
- Jewellery Club
- Lego Club
- Engineering Club

**Autumn Term**

Year 7

**Summer Term**

**Designing and Making a Healthy Oat Bar with Packaging**

- Understand the main food groups and the different nutrients that are important for health.
- Select appropriate ingredients and use a wide range of techniques to combine them.

**Spring Term**

**Designing and Creating in 3D a House of the Future**

- Use knowledge of existing products to design a functional and appealing product.
- Create designs using simple electrical diagrams.
- Use knowledge of techniques and the functional and aesthetic qualities of a wide range of materials to plan how to use them.
- Understand and use electrical systems in products.
- Use techniques which require more accuracy to cut, shape and join
- Evaluate

**Spring Term**

**To Create a Geodesic Dome**

- Use research into famous designers and inventors to inform design.
- Generate, develop, model and communicate ideas through discussion, annotated sketches, cross-sectional and exploded diagrams, prototypes, pattern pieces and computer aided design.
- Apply understanding of computing to program, monitor and control his/her product.

**Summer Term**

**To Create a Healthy Pasta Sauce to Go With a Meal**

- Understand the main food groups and the different nutrients that are important for health.
- Understand how a variety of ingredients are grown, reared, caught and processed to make them safe and palatable / tasty to eat.
- Select appropriate ingredients and use a wide range of techniques to combine them.

Year 6

**Autumn Term**

**Create a Christmas Cam Toy**

- Use knowledge of existing products to design a functional and appealing product.
- Consider how existing products and his/her own finished products might be improved and how well they meet the needs of the intended user.
- Use techniques which require more accuracy to cut, shape, join and finish work.
- Evaluate

**Spring Term**

**Create Housing for a Working Torch**

- Design a functional and appealing product
- Create designs using simple electrical diagrams.
- Use knowledge of techniques and the functional and aesthetic qualities of a wide range of materials to plan how to use them.
- Consider improvements
- Understand and use electrical systems in products.
- Use techniques which require more accuracy
- Evaluate and assess existing products and own learning

**Autumn Term**

**To Create and Test a Working Portable Water Filter**

- Use knowledge of famous designs to further explain the effectiveness of existing products and products he/she have made.
- Generate, develop, model and communicate his/her ideas through discussion, annotated sketches, cross-sectional and exploded diagrams, prototypes, pattern pieces and computer aided design.
- Use technical knowledge accurate skills to problem solve during the making process.

Year 5

**Summer Term**

**Using Natural Ingredients to Create a Healthy Trail Mix**

- Understand what makes a healthy and balanced diet, and that different foods and drinks provide different substances the body needs to be healthy and active.
- Understand seasonality and the advantages of eating seasonal and locally produced food.
- Read and follow recipes which involve several processes, skills and techniques.

**Spring Term**

**Using Pneumatics to Create an Erupting Volcano**

Understand how mechanical systems such as levers and linkages or pneumatic systems create movement.

**Summer Term**

**Creating a Healthy Salad**

Understand that food has to be grown, farmed or caught in Europe and the wider world.

Use a wider variety of ingredients and techniques to prepare and combine ingredients safely.

**Autumn Term**

**Make a Two-Point Lever Christmas Card**

- Design a functional and appealing product for a particular purpose and audience.
- Create designs using exploded diagrams.
- Use his/her knowledge of techniques and the functional and aesthetic qualities of a wide range of materials to plan how to use them.
- Apply techniques he/she has learnt to strengthen structures
- Evaluate

Year 4

**Autumn Term**

**WW2/ Let's Go to China**

- Investigate existing products and ask questions.
- Choose appropriate tools, equipment, techniques and materials from a wide range.
- Measure and mark out my ideas carefully before cutting them.
- Investigate fabric and design my own clothing for stiffening the doll's body.
- I can evaluate and assess existing products.

Year 3

## Cycle Assessment points

- Autumn Term Assessments (December)
- Spring Term Assessments (March)
- Summer Term Assessments (June)



# CEC EYFS + Key Stage 1 Learning Journey: D and T

**Spring Term**

**The Shang Dynasty/ Our Food Our World**

- Identify the five types of food that make up a balanced diet
- Understand the important of eating the right amounts of food.
- Introduce and identify Vitamins A, B, C
- Food skills
- Food making
- Food Evaluation

**Summer Term**

**Prehistoric Britain/ Villages, Towns, Cities**

- Investigate existing products
- Understand how mechanical systems such as levers and linkages or pneumatic systems create movement.
- Use knowledge of existing products to design my own functional product.
- Create a design I using annotated sketches and cross-sectional diagrams.
- Create my animal using reclaimed materials.
- Decorate and complete my project to achieve my intended outcome.

Learning journey to continue in KS2

**Autumn Term**

**WW2/ Let's Go to China**

- Investigate existing products and ask questions.
- Choose appropriate tools, equipment, techniques and materials from a wide range.
- Measure and mark out my ideas carefully before cutting them.
- Investigate fabric and design my own clothing for stiffening the doll's body.
- I can evaluate and assess existing products.

**Year 2**

**Summer Term**

**Significant Sport Stars/ Wonderful Weather Food Technology**

- Understand that food is a basic requirement
- Understand that food keeps us healthy and gives us energy to grow
- Hygiene
- Recipe and skills
- Food making
- Food evaluation

**Spring Term**

**Ancient Egypt/ To Exeter and Beyond**

- Investigate existing products and ask questions.
- Create simple designs for a product.
- Use pictures and words to describe outcome
- Ask simple questions about existing products and those that I have made.
- Create a design based on ideas.
- Use a range of simple tools to cut, join and combine materials and components safely.

**Spring Term**

**Shiver M'Timbers! and Remarkable Robots**

- Make a pirate hat
- Writing/sequencing instructions to make a hat fit for a pirate.
- Pirate Cooking
- Design and make a Robot
- Revisit the robot they designed and then write sentences

**Summer Term**

**Splendid Safari/ Ready Steady Grow**

**Autumn Term**

**Dinosaurs/ Location, Location, Location**

- Ask questions about existing products.
- Create and investigate a simple design
- Use pictures and words to describe what I want to do.
- Build my own roly poly based on a design specification.
- Create my roly poly and begin exploring ways to improve it.
- Evaluate my completed product.

**Year 1**

**Spring Term**

- Investigate existing products and ask questions.
- Create simple designs for a product.
- Use pictures and words to describe outcome
- Ask simple questions about existing products and those that I have made.
- Create a design based on ideas.
- Use a range of simple tools to cut, join and combine materials and components safely.

**Autumn Term**

**Superhero and Me/ Blast Off**

- Design and make a picnic suitable for an alien.
- Design an outfit for an alien, draw and label it.
- Design a space station.
- Draw and label their very own space station.

**Year R**

**Summer Term**

- Draw with increasing complexity and detail, such as representing a face with a circle and including details.
- Use drawing to represent ideas like movement or loud noises.
- Develop their own ideas and then decide which materials to use to express them.

**Spring Term**

- Explore different materials freely, to develop their ideas about how to use them and what to make.
- Join different materials and explore different textures
- Make imaginative and complex 'small worlds' with blocks and construction kits, such as a city with different

**Spring Term**

- Start to make marks intentionally.
- Explore paint, using fingers and other parts of their bodies, and brushes and other tools.
- Express ideas and feelings through making marks, and sometimes give a meaning to the marks they make.

**Summer Term**

- Explore different materials, using all their senses to investigate them. Manipulate and play with them.
- Use their imagination as they consider what they can do with different materials.
- Make simple models which express their ideas.

**Autumn Term**

- Create closed shapes with continuous lines, and begin to use these shapes to represent objects
- Make healthy choices about food, drink, activity and toothbrushing.
- Use one-handed tools and equipment, for example, making snips in paper with scissors.

**Year P**

**Spring Term**

- Explore different materials freely, to develop their ideas about how to use them and what to make.
- Join different materials and explore different textures
- Make imaginative and complex 'small worlds' with blocks and construction kits, such as a city with different

**Autumn Term**

- Develop manipulation and control.
- Explore different materials and tools.
- Nutrition- encourage children to try a range of foods as they become more independent eaters.

**Year N**

## Cycle Assessment points

- Autumn Term Assessments (December)
- Spring Term Assessments (March)
- Summer Term Assessments (June)