

D&T Subject Road Map

Key:

- Cooking & Nutrition
- Structures & Mechanisms
- Textiles

Transition to Middle School

Y4

Omelettes
Raw ingredients to cooked
Different ingredients can be added—vegetarian or contain meat

How can we warn people about a volcanic eruption?
To create a volcano warning system including light and sound.
Shell structure to house an electrical system built upon a free standing structure.

Pouch for carrying special potion (Ancient Maya)
Fastening
Using a drawstring

Book mark
Running stitch
Add a button
Add a tassel

How can we collect a baby shad for scientific monitoring?
Shell structure with a lever mechanism.

Soup
Peeling vegetables
Chunky/smooth
Thick/thin

Y2

Healthy pizzas
Wrap base
Raw meats—when cooked they can be eaten
Heathy choices of toppings

How can we create a safe enclosure for an iguana to be tagged and the released back into the wild?
Free standing structure to house the iguana.
Lever to close and a slider to re-lease.

Nurse puppet
Stitching
Tying and knotting
Plaiting hair and attaching

Y3

Repurpose a CD to make a dream catcher.
Weaving

How can we safely move the research station on ice?
Select measure and mark out materials to make a chassis.
To make a product that moves—wheels or winding.

Fruit smoothies
Healthy choices
Fruits and vegetables
Peeling/cutting

Y1

YR R Cooking and Nutrition
Uses tools for a purpose
Help children to predict and order events coherently.
Knows how to wash and dry hands effectively

YR R Structures and Mechanisms
--Safely uses and explore a variety of materials, tools and techniques, experimenting with colour, design, texture, form and function.
Share their creations, explaining the process they have used.
Provide a range of materials that enable children to explore cause and effect.

YR R Textiles
Explores differences in size, length
Makes simple constructions
Uses 2D and 3D structures to explore materials
Uses everyday materials to explore, understand and represent the world.
Uses everyday materials to explore, understand and represent his world – his ideas, interests and fascinations

YR

YR N Textiles
Children within the Early Years will take part in textiles through adult focus activities depending on the children's interests and independently during their Child Initiated play through the continuous provided.
- Explores differences in size, length
Makes simple constructions
Uses 2D and 3D structures to explore materials
Uses everyday materials to explore, understand and represent the world.

YR N Cooking and Nutrition
Children within the Early Years will take part in cooking activities through adult focus activities depending on the children's interests
Uses tools for a purpose
Knows how to wash and dry hands effectively.

YN

YR N Structures and Mechanisms
Children within the Early Years will take part in developing their understanding of 'Structures and Mechanisms' through adult focus activities depending on the children's interests and independently during their Child Initiated play through the continuous provided.
Develops an understanding of using lines to enclose a space, and begins to use drawing to represent actions and objects based on imagination, observation and experience.
Uses various construction materials, e.g. joining pieces, stacking vertically and horizontally, balancing, making enclosures and creating spaces.
Uses tools for a purpose
Provide a range of materials that enable children to explore cause and effect.

Characteristics of effective learning

1. Playing and exploring—engagement
2. Active learning—motivation
3. Creating and thinking critically—thinking