

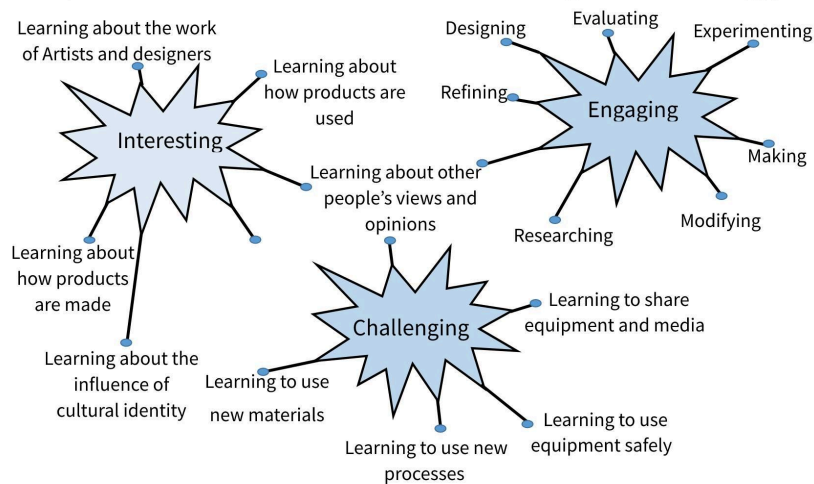


## Key Stage 3 Design and Technology Curriculum Plan

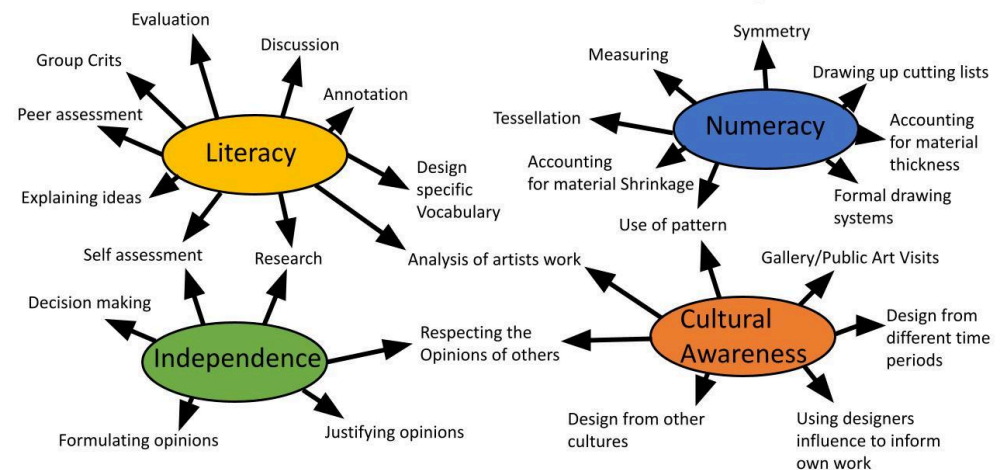
### Main Aims:

Design Technology in KS3, seeks to draw year 5 and 6 experiences together into projects which cover GCSE assessment objectives. In design, we introduce formal drawing systems to communicate designs and learn about the benefits of formal drawing systems. Students' practical skills are developed and modified through projects which explore different types of resistant materials, their differing forms and uses, environmental implications, and their primary and secondary processing. Students will explore, through focussed practical tasks, the production and use of thermosoftening plastics and softwood timbers. We will focus on their range of uses, adaptabilities and limitations as well as cutting, drilling, construction and finishing techniques. Students will also consider the health and safety implications of making, using and storing products which utilise acrylic plastics and soft wood in their manufacture. Students will be able to make timber and plastic products from scratch using readily available materials and to make informed choices towards having a sustainable lifestyle. We also want students to have a sense of the environmental impact of consumer society.

### I.C.E. Curriculum in Art and Design Technology



### The L.I.N.C. Approach in Design:





**Year 7**

**Autumn 1**

**Bird Boxes Project:** Research and Health and Safety

- The safe use of hand tools
- Using the pillar drill and disc sander safely
- Different types of wood which are suitable to make a bird box

**Autumn 2**

**Bird Boxes Project:** Developmental Work

- Isometric drawings
- Research into best bird box designs
- Research correct tools and how to make a bird box

**Spring 1**

**Bird Boxes Project:** Outcome Development

- Start making. Marking wood
- Sawing wood and joining wood
- Using the correct tools to produce a high quality finish

**Spring 2**

**Bird Boxes Project:** Outcome Production

- Continue building the bird box
- Completion of bird box
- Assessment and peers assessment
- Group crit

**Summer 1**

**Pencil pots :** Developmental Work

- Artist research
- Exploring ideas
- Practising skills on relevant machinery.

**Summer 2**

**Pencil pots;** Outcome production

- Marking out final design onto wood
- Building pencil pot
- Producing a high quality finish of wood



**Year 8**

<b>Year 8</b>	
<b>Autumn 1</b>	<b>Autumn 2</b>
<p><b>Acrylic Clocks Project:</b> Research and Health and Safety</p> <ul style="list-style-type: none"><li>● Health and safety</li><li>● What makes a good clock design?</li><li>● Moodboard</li><li>● Exploring the properties of plastic</li><li>● Initial clock designs</li></ul>	<p><b>Acrylic Clocks Project:</b> Developmental Work</p> <ul style="list-style-type: none"><li>● Clock designs</li><li>● Exploring ideas</li><li>● Using the machinery and mastering skills</li><li>● Starting to make the final clock design</li></ul>
<b>Spring 1</b>	<b>Spring 2</b>
<p><b>Acrylic Clocks Project:</b> Outcome Development</p> <ul style="list-style-type: none"><li>● Making the clock, following the final design</li><li>● Assessing work up to date</li><li>● Mastering skill on machinery</li></ul>	<p><b>Acrylic Clocks Project:</b> Outcome Production</p> <ul style="list-style-type: none"><li>● Continue the making of the clock</li><li>● Completion of the clock</li><li>● Peer assessment</li><li>● Group crit</li></ul>
<b>Summer 1</b>	<b>Summer 2</b>
<p><b>Pewter Casting:</b> Developmental Work</p> <ul style="list-style-type: none"><li>● Health and safety</li><li>● Artist / designers research</li><li>● Design development</li><li>● Making clay moulds for pewter casting</li></ul>	<p><b>Pewter Casting:</b> Outcome Production</p> <ul style="list-style-type: none"><li>● Casting pewter first design</li><li>● Casting 2nd design after improvements have been made</li><li>● Group crit</li><li>● Assessment</li></ul>