

<b>Subject: DT- Automata</b>	<b>Year Group: 8</b>
<b>Spring 1 – Curriculum Plan</b>	<b>Homework Plan</b>
<p><b>Lesson 1:</b></p> <p>LO1: Be able to describe the success criteria for an Automata.  LO2: Be able to demonstrate my understanding of ACCESSFM  LO3: Create a specification for my own Automata using ACCESSFM</p> <p><b>Lesson 2:</b></p> <p>LO1: Be able to use research to sketch my initial ideas.  LO2: Be able to apply my understanding of cams in order to develop my idea.  LO3: Be able evaluate my designs and consider how to improve my work.</p> <p><b>Lesson 3:</b></p> <p>LO1: Be able to choose the correct tools and equipment to use for marking, shaping and cutting wood.  LO2: Be able to apply mathematical skill to ensure accuracy.  LO3: Be able to evaluate my work by gaining feedback from others and through physically testing it</p> <p><b>Lesson 4:</b></p> <p>LO1: Be able to understand working drawings to mark out and cut wood pieces correctly.  LO2: Be able to demonstrate accuracy in finishing and marking out joints.  LO3: Be able to create my own comb joint.</p> <p><b>Lesson 5:</b></p> <p>LO1: Be able to choose appropriate materials for the output section.  LO2: Be able to select correct tools to use for my chosen material.  LO3: Be able to assess the finish of the part I have created.</p> <p><b>Lesson 6:</b></p> <p>LO1: Be able to understand the procedures for finishing various materials  LO2: Be able to test various surface finishes for range of materials.  LO3: Be able to assess the value of different finishes for your work by gaining feedback from others.</p> <p><b>Lesson 7:</b></p> <p>LO1: Be able to plan a schedule of the completion of my work.  LO2: Be able to apply quality control checks in final assembly.  LO3: Be able to gather relevant feedback about my work from others.</p>	<p><b>Embed</b></p> <p>Lesson 1: Research Automatas- create mood board and analyse products using ACCESSFM and evaluate the products. Skills: Researching, analysis and evaluation  Lesson 2: Research different types of cams and draw and colour final design. Skills: Researching, analysis, evaluation, designing, drawing, colouring.  Lesson 5: Research different types of finishes. Skills: Researching, analysis, evaluation  Lesson 7: Complete final evaluation. Skills: Evaluation</p> <p><b>Apply</b></p> <p>Lesson 4: Diary of making. Skills: Self- reflection, evaluation  Lesson 6: Diary of making. Skills: Self- reflection, evaluation</p> <p><b>Challenge/Interleaving</b></p> <p>Lesson 3: Materials research Skills: Researching, analysis, evaluation.</p> <p><b>Improve/Go Green</b></p>
<p><b>Spring 1 Assessment:</b></p> <p><b>Exam style questions- A range of multiple choice and short answer questions.</b></p>	

Spring 1 – Curriculum Plan	Homework Plan
<p><b>Lesson 1:</b></p> <p>LO1: understand how to work safely and use ACCESS FM to help me analyse</p> <p>LO2: apply my understanding of safe working and ACCESS FM to analyse the Design Brief</p> <p>LO3: Evaluate the Design Brief using ACCESS FM and my understanding of safe working to create an initial specification</p> <p><b>Lesson 2:</b></p> <p>LO1: Apply Knowledge of 3D drawing to create an accurate 'Isometric' Cuboid.</p> <p>LO2: Practice skill with Isometric system by drawing a simple design for your buggy body</p> <p>LO3: Create an 'original' design for your buggy using Isometric Technique &amp; colours.</p> <p><b>Lesson 3:</b></p> <p>LO1: be able to explain what CAD is and know the basic tools of Google Sketch Up.</p> <p>LO2: be able to demonstrate my understanding of Google Sketch Up by drawing my buggy.</p> <p>LO3: be able to apply my understanding of rendering to buggy design</p> <p><b>Lesson 4:</b></p> <p>LO1: Choose the correct tools and equipment to use for marking, shaping and cutting wood</p> <p>LO2: Understand how to read a technical drawing and follow one accurately to make a product</p> <p>LO3: Evaluate my work by gaining feedback from others and through physically testing it</p> <p><b>Lesson 5:</b></p> <p>LO1: Choose the correct tools and equipment to use for marking, shaping and cutting wood</p> <p>LO2: Understand how to read a technical drawing and follow one accurately to make a product</p> <p>LO3: Evaluate my work by gaining feedback from others and through physically testing it</p> <p><b>Lesson 6:</b></p> <p>LO1: be able to recall the correct way to solder.</p> <p>LO2: Demonstrate my understanding of soldering the circuit safely and correctly.</p> <p>LO3: be able to diagnose any issues with my work and evaluate my packaging designs.</p> <p><b>Lesson 7:</b></p> <p>LO1: Know the steps to vacuum forming and I can demonstrate my understanding of vacuum forming</p> <p>LO2: Demonstrate my understanding of soldering the circuit safely and correctly.</p> <p>LO3: Evaluate my work by gaining feedback from others and through physically testing it.</p>	<p><b>Embed</b></p> <p>Lesson 2: Complete drawing a buggy design in isometric view and colour in. Skills: Drawing, designing</p> <p>Lesson 7: Complete final evaluation Skills: Evaluation</p> <p><b>Apply</b></p> <p>Lesson 1: Research 8 different buggies/toy cars. Analyse each product using ACCESSFM and evaluate. Skills: Researching, analysis and evaluation</p> <p>Lesson 3: Render a net of a buggy. Skills: Rendering, designing</p> <p><b>Challenge/Interleaving</b></p> <p>Lesson 4: Diary of making Skills: Self-reflection, Evaluation</p> <p>Lesson 6: Diary of making Skills: Self-reflection, Evaluation</p> <p><b>Improve/Go Green</b></p> <p>Lesson 5: Think Pink Go Green Skills: Self- reflection, Improving work based on teachers comments</p>
<p><b>Spring 1 Assessment:</b></p> <p><b>Exam style questions- A range of multiple choice and short answer questions.</b></p>	
<p><b>Subject: DT- Lightweight buggy</b></p>	<p><b>Year Group: 7</b></p>

<b>Subject: DT- Low voltage Lighting</b>	<b>Year Group: 9</b>
<b>Autumn 1 – Curriculum Plan</b>	<b>Homework Plan</b>
<p><b>Lesson 1:</b></p> <p>LO1: Be able to apply my understanding of ACCESSFM to complete a task analysis.  LO2: Be able to create a design specification using my mind map to help me.  LO3: Be able to evaluate my page by explaining what I have learnt and what my next steps would be.</p> <p><b>Lesson 2:</b></p> <p>LO1: Be able to experiment with a range of techniques to help with design development.  LO2: Be able to adapt my own ideas with experimental techniques to demonstrate creativity  LO3: Be able to justify my design decisions through the use of sketches/ diagrams and annotations</p> <p><b>Lesson 3-5:</b></p> <p>LO1: Be able to choose appropriate materials and equipment for my models.  LO2: Be able to create a range of different models of my light.  LO3: Be able to evaluate my models taking into account feedback from my client.</p>	<p><b>Embed</b></p> <p><b>Lesson 5:</b></p> <p>Complete any unfinished models and evaluate. Skill: Construction, Analysis, Evaluation</p> <p><b>Lesson 6:</b></p> <p>Exam Question regarding CAD. Skill: Exam practice, Applying technical subject knowledge.</p> <p><b>Lesson 9:</b></p> <p>Complete any unfinished technical drawings and evaluate each drawing. Skill: Drawing, Rendering, Analysis, Evaluation.</p> <p><b>Lesson 10-24:</b></p> <p>Record and evaluate their learning in a diary of making. Gain feedback about product from target market. Skill: Drawing, Analysis, Evaluation, Communication.</p>
<p><b>Lesson 6-7:</b></p> <p>LO1: Be able to explain what CAD is and know the basic tools of 2D Design  LO2: Be able to demonstrate my understanding of 2D Design by creating a CAD drawing that can be laser cut  LO3: Be able to apply my understanding of laser cutting to my final design.</p> <p><b>Lesson 8:</b></p> <p>LO1: Be able to create a simple drawing in isometric.  LO2: Be able to apply my understanding of isometric to draw my final design.  LO3: Be able to evaluate my final design using the 6 Thinking Hats</p>	<p><b>Apply</b></p> <p><b>Lesson 17:</b></p> <p>Students apply understanding of packaging to finish creating their own designs. Skill: Drawing, Rendering, Analysis, Evaluation.</p> <p><b>Lesson 18:</b></p> <p>Students make a model of their tray former. Skill: Model making, Numeracy</p>
<p><b>Lesson 9:</b></p> <p>LO1: Be able to create a simple drawing in orthographic.  LO2: Be able to apply my understanding of orthographic to draw my final design.  LO3: Be able to evaluate my final design using the 6 Thinking Hats</p> <p><b>Lesson 10-20:</b></p> <p>LO1: Be able to correctly choose and use tools safely.  LO2: Be able to demonstrate my ability of marking out, cutting and shaping my wood/ plastic pieces.  LO3: Be able to evaluate my learning by completing my diary of making.</p>	<p><b>Challenge/Interleaving</b></p> <p><b>Lesson 1:</b></p> <p>Product analysis and inspiration board. Skill: Research, Analysis, Evaluation.</p> <p><b>Lesson 4:</b></p> <p>Designer/ company analysis (Lighting). Skill: Research, Analysis, Evaluation.</p>
<p><b>Lesson 21-24: Soldering</b></p> <p>LO1: Be able to recall the correct way to solder.  LO2: Be able to demonstrate my understanding of soldering the circuit safely and correctly.  LO3: Be able to evaluate my learning by completing my diary of making.</p> <p><b>Lesson 25-26: Final Assembly</b></p> <p>LO1: Be able to plan a schedule of the completion of my work.  LO2: Be able to apply quality control checks in final assembly.  LO3: Be able to gather relevant feedback about my work from others</p> <p><b>Lesson 27-28 Swing tickets- photo shop</b></p> <p>LO1: Be able to list and explain the different functions of packaging.  LO2: Be able to <b>apply</b> knowledge of product packaging and graphics to</p>	<p><b>Improve/Go Green</b></p> <p><b>Lesson 2:</b></p> <p>Gain feedback from 'client' regarding initial designs. Skill: Research (Primary).</p> <p><b>Lesson 8:</b></p> <p>Improve work by responding to teacher feedback.</p>

**create** piece of packaging.

LO3: Be able to **evaluate** your ideas by annotating them in reference to your design criteria.

**Spring 1 Assessment:**

**Exam style questions- A range of multiple choice and short answer questions.**