

**Scheme of Work 2020 - 2021**  
**Subject: Design and computing.**

**Year Group: 8**  
**Specification: Computer Science**  
**Express / Mainstream**


Lesson No	Topic & Objectives	Key Activities & Specialist Terminology	Big Think Qs & Stretch	Assessment (Include relevant GCSE Q stem)	Homework	Lit Num SMSC Codes
<b>1 - WEEK BEGINNING 12/4/2021</b>	<b><u>Computer Science and programming - Programming</u></b>  Introduction to programming	Students will be introduced to what is programming and what is a programming language	What is programming and how does it work	Worksheets activity	Students can practice playing with scratch if they have done this at primary school	S06, S09,C1,C3,SP9
<b>2 - WEEK BEGINNING 19/4/2021</b>	<b><u>Computer Science and programming - Programming</u></b>  Introduction to programming	Students will be introduced to what an algorithm is and how it works. Including statements  <ul style="list-style-type: none"> <li>• sequencing</li> <li>• selection</li> <li>• iteration</li> </ul>	What is an algorithm >? Have you ever heard this word before	Practice on scratch	Students can practice playing with scratch if they have done this at primary school	S06, S09,C1,C3,SP9
<b>3 - WEEK BEGINNING 26/4/2021</b>	<b><u>Computer Science and programming - Programming</u></b>  Introduction to scratch	Students will be introduced to procedures and functions on scratch to write a game.	Create your own program	Practice on sketch	Students can practice playing with scratch if they have done this at primary school	S06, S09,C1,C3,SP9

<b>4 - WEEK BEGINNING</b> 03/5/2021	<b><u>Computer Science and programming - Programming</u></b>  Working with sketch	Students will be introduced to array and lists.	Create your own program	Practice on scratch	Students can practice playing with scratch if they have done this at primary school	S06, S09,C1,C3,SP9
<b>5 - WEEK BEGINNING</b> 10/5/2021	<b><u>Computer Science and programming - Programming</u></b>  Working with s scratch	Students will be working on their own programs on scratch	Create your own program	Practice on scratch	Students can practice playing with scratch if they have done this at primary school	S06, S09,C1,C3,SP9
<b>6 - WEEK BEGINNING</b> 17/5/2021	<b><u>Computer Science and programming - Programming</u></b>  Working with s scratch	Students will be working on their own programs on scratch	Create your own program	Practice on scratch	Students can practice playing with scratch if they have done this at primary school	S06, S09,C1,C3,SP9
<b>7 - WEEK BEGINNING</b> 24/5/2021	<b><u>Computer Science and programming - Programming</u></b>  Working with scratch	Students will be working on their own programs at the end of the session students will test each others games.	Create your own program	Practice on scratch	Students can practice playing with scratch if they have done this at primary school	S06, S09,C1,C3,SP9

## Half Term

**Year Group: 8**  
**Specification: Woodwork - Express / Mainstream**

Lesson No	Topic & Objectives	Key Activities & Specialist Terminology	Big Think Qs & Stretch	Assessment (Include relevant GCSE Q stem)	Homework	Lit Num SMSC Codes
-----------	--------------------	---	------------------------	---	----------	--------------------

<p><b>1 - WEEK BEGINNING 07/6/2021</b></p>	<p><b>Woodwork – Phone stand</b></p> 	<p><b>Outline task</b> – What are they making? <i>Phone stands</i></p> <p><b>Show examples</b> – Either physical examples or photographs. Showing them different skill levels, from simple outcomes to more advanced outcomes. Showing examples of what learners will achieve :</p> <p><b>Step 3</b> – a basic example shown <b>Step 4</b> – an intermediate example shown <b>Step 5 +</b> - a complex example shown. Giving the student a visual representation of what they need to aim for.</p> <p><b>PowerPoint</b> – What processes will they be using? What tools? What materials? What makes a good phone stand?</p> <p><b>First task:</b> Design what they want their phone stand to look like</p>	<p>What makes a good phone stand?</p> <p>What could they do to make their design reach a higher step?</p> <p>Could they add anything to their design to make it stand out?</p> <p>Who would phone stands be useful for?</p> <p>What industry do you think they would fall into?</p> <p>Could the phone stand be multi – purpose?</p>	<p>Teacher led assessment.</p> <p>Tips and hints on how to improve.</p> <p>Guide self-evaluation throughout.</p>	<p>Doddle</p>	<p>S06, S09,C1,C3,SP9</p>
<p><b>2 - WEEK BEGINNING 14/6/2021</b></p>	<p><b>Woodwork – Phone stand</b></p>	<p><b>Starter</b> – Worksheet <b>Show examples</b> – Have physical examples and/or images for students to refer to when making their own models.</p> <p><b>Finish</b> – Designing what the phone stand will look like</p>	<p>What makes a good phone stand?</p> <p>What could they do to make their design reach a higher step?</p>	<p>Teacher led assessment.</p> <p>Tips and hints on how to improve.</p> <p>Guide self-evaluation throughout.</p>	<p>Doddle</p>	<p>S06, S09,C1,C3,SP9</p>

		<p><b>Begin</b> – Marking out design onto the wood.</p>	<p>Could they add anything to their design to make it stand out?</p> <p>Who would phone stands be useful for?</p> <p>What industry do you think they would fall into?</p> <p>Could the phone stand be multi – purpose?</p>			
<p><b>3 - WEEK BEGINNING 21/6/2021</b></p>	<p><b>Woodwork – Phone stand</b></p>	<p><b>Starter</b> – Worksheet</p> <p><b>Show examples</b> – Have physical examples and/or images for students to refer to when making their own models.</p> <p><b>Finish</b> – Marking out design onto the wood.</p> <p><b>Begin</b> – Cutting out design from the wood.</p>	<p>What makes a good phone stand?</p> <p>What could they do to make their design reach a higher step?</p> <p>Could they add anything to their design to make it stand out?</p> <p>Who would phone stands be useful for?</p> <p>What industry do you think they would fall into?</p> <p>Could the phone stand be multi – purpose?</p>	<p>Teacher led assessment.</p> <p>Tips and hints on how to improve.</p> <p>Guide self-evaluation throughout.</p>	<p>Doddle</p>	<p>S06, S09,C1,C3,SP9</p>
<p><b>4 - WEEK BEGINNING 28/6/2021</b></p>	<p><b>Woodwork – Phone stand</b></p>	<p><b>Starter</b> – Worksheet</p> <p><b>Show examples</b> – Have physical examples and/or images for students to refer to when making their own models.</p>	<p>What makes a good phone stand?</p> <p>What could they do to make their design reach a higher step?</p>	<p>Teacher led assessment.</p> <p>Tips and hints on how to improve.</p>	<p>Doddle</p>	<p>S06, S09,C1,C3,SP9</p>

		<p><b>Continue</b> - Cutting out design from the wood.</p>	<p>Could they add anything to their design to make it stand out?</p> <p>Who would phone stands be useful for?</p> <p>What industry do you think they would fall into?</p> <p>Could the phone stand be multi – purpose?</p>	<p>Guide self-evaluation throughout.</p>		
<p><b>5 – WEEK BEGINNING 07/7/2021</b></p>	<p><b>Woodwork – Phone stand</b></p>	<p><b>Starter</b> – Worksheet  <b>Show examples</b> – Have physical examples and/or images for students to refer to when making their own models.</p> <p><b>Finish</b> – Cutting out design from the wood.</p> <p><b>Start</b> - Sanding rough edges and smoothing out the wood to the desired effect.</p>	<p>What makes a good phone stand?</p> <p>What could they do to make their design reach a higher step?</p> <p>Could they add anything to their design to make it stand out?</p> <p>Who would phone stands be useful for?</p> <p>What industry do you think they would fall into?</p> <p>Could the phone stand be multi – purpose?</p>	<p>Teacher led assessment.</p> <p>Tips and hints on how to improve.</p> <p>Guide self-evaluation throughout.</p>	<p>Doddle</p>	<p>S06, S09,C1,C3,SP9</p>
<p><b>6 - WEEK BEGINNING 12/7/2021</b></p>	<p><b>Woodwork – Phone stand</b></p>	<p><b>Starter</b> – Worksheet  <b>Show examples</b> – Have physical examples and/or images for students to refer to when making their own models.</p>	<p>What makes a good phone stand?</p>	<p>Student to photograph their work and self-evaluate their project against steps using</p>	<p>Doddle</p>	<p>S06, S09,C1,C3,SP9</p>

		<p><b><u>Finish</u></b> – Sanding rough edges and smoothing out the wood to the desired effect.</p> <p><b><u>Start</u></b> – Painting or varnishing to finish off phone stand.</p> <p><b><u>Evaluate</u></b> – Answer evaluation questions provided.</p>	<p>What could they do to make their design reach a higher step?</p> <p>Could they add anything to their design to make it stand out?</p> <p>Who would phone stands be useful for?</p> <p>What industry do you think they would fall into?</p> <p>Could the phone stand be multi – purpose?</p>	<p>the provided evaluation sheet.</p> <p>Self-evaluation question examples:</p> <ul style="list-style-type: none"> <li>• How did it turn out?</li> <li>• Are you pleased with it?</li> <li>• Would you change anything?</li> <li>• Would you do anything differently next time?</li> </ul> <p>Teacher then to grade each project with written feedback for each student.</p>		
--	--	--	--	--	--	--