



# Computing 24/25 MTP

Team	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
3	<p><b>Online Safety</b></p> <ol style="list-style-type: none"> <li>1. How can we use the internet safely?</li> <li>2. Who are the trusted adults I can talk to about keeping safe online?</li> <li>3. How can my emotions be affected from being online?</li> <li>4. How do I treat others when I am online?</li> <li>5. How do I be careful when posting online?</li> <li>6. How much time should I spend online and offline?</li> </ol>	<p><b>Word processing</b></p> <ol style="list-style-type: none"> <li>1. How do I touch type? (an introduction)</li> <li>2. How to use a word processor</li> <li>3. How do I add images to a text document?</li> <li>4. How do I access sources using the internet?</li> <li>5. Can I create my own digital piece of writing? (part 1)</li> <li>6. Can I create my own digital piece of writing? (part 2)</li> </ol>	<p><b>Programming using Scratch</b></p> <ol style="list-style-type: none"> <li>1. How does programming work in games?</li> <li>2. How do I block code using Scratch</li> <li>3. What does the code mean?</li> <li>4. How do I plan and build a program in Scratch?</li> <li>5. Is my program successful and how to trouble shoot.</li> </ol>	<p><b>Data Handling – Comparison cards databases</b></p> <ol style="list-style-type: none"> <li>1. What is the terminology around databases?</li> <li>2. What are the differences between paper and computerised databases?</li> <li>3. How do I sort, filter and interpret data?</li> <li>4. How can I represent data in different ways?</li> <li>5. How do I sort data for a purpose?</li> </ol>	<p><b>Creating media – video trailers</b></p> <ol style="list-style-type: none"> <li>1. How do I plan a book trailer?</li> <li>2. What photos do I need to tell a story?</li> <li>3. How do I edit a video?</li> <li>4. How do I add text and transitions to video?</li> <li>5. What makes a successful book trailer?</li> </ol>	<p><b>Computing systems and networks</b></p> <ol style="list-style-type: none"> <li>1. What is a network?</li> <li>2. How does information move around a network?</li> <li>3. How does a website work?</li> <li>4. What is the role of a router?</li> <li>5. What is packet data?</li> <li>6.</li> </ol>
4	<p><b>Online Safety</b></p> <ol style="list-style-type: none"> <li>1. What happens when I search online?</li> <li>2. How do companies make us buy online?</li> <li>3. How do I know if it's fact, opinion or belief?</li> <li>4. What is a bot?</li> <li>5. What is my tech time-table like?</li> </ol>	<p><b>Data handling – Weather</b></p> <ol style="list-style-type: none"> <li>1. What is weather?</li> <li>2. What is sensor data?</li> <li>3. How can I effectively search for information on the internet?</li> <li>4. How do I record data in a spreadsheet?</li> <li>5. How do I present a weather forecast?</li> </ol>	<p><b>Computing Systems and Networks – Collaborative learning</b></p> <ol style="list-style-type: none"> <li>1. What behaviour is appropriate when collaborating online?</li> <li>2. How can I make suggestions or comments on someone else's work using word processing software?</li> <li>3. How do I create effective presentations?</li> <li>4. How do I create and share Google Forms?</li> <li>5. How do I use a shared spreadsheet to explore data?</li> </ol>	<p><b>Skills Showcase: HTML</b></p> <ol style="list-style-type: none"> <li>1. What is HTML?</li> <li>2. How do I change HTML code for a specific purpose?</li> <li>3. What are the basics of HTML?</li> <li>4. How do I alter the HTML on a live web page?</li> <li>5. How do I alter an image on a web page?</li> </ol>	<p><b>Programming: Scratch</b></p> <ol style="list-style-type: none"> <li>1. What is Scratch?</li> <li>2. What is a loop?</li> <li>3. How do I program an animation?</li> <li>4. How can I program a story?</li> <li>5. How do I program a game?</li> </ol>	<p><b>Computing systems and networks 2: Emailing</b></p> <ol style="list-style-type: none"> <li>1. What different ways do we communicate with technology?</li> <li>2. What is email and how do I send it?</li> <li>3. How do I create an email with an attachment?</li> <li>4. Why is important to be kind online?</li> <li>5. When is an email not genuine and how will I know?</li> </ol>
5	<p><b>Computing systems and networks: journey inside a computer</b></p> <ol style="list-style-type: none"> <li>1. What are basic inputs and outputs?</li> <li>2. What are the different components inside a laptop?</li> <li>3. What is the purpose of different computer parts? Part 1</li> <li>4. What is the purpose of different computer parts? Part 2</li> <li>5. How do I decompose a tablet computer?</li> </ol>	<p><b>Data Handling: Mars Rover</b></p> <ol style="list-style-type: none"> <li>1. How and why is data collected from space?</li> <li>2. How do I read and calculate numbers using binary code?</li> <li>3. What is the computer architecture of the Mars Rover?</li> <li>4. What are the simple operations needed to calculate bit patterns?</li> <li>5. Can I create and represent binary as text?</li> </ol>	<p><b>Skills Showcase: Mars Rover 2 – CAD (Computer Aided Design)</b></p> <ol style="list-style-type: none"> <li>1. How do bit patterns represent images as pixels?</li> <li>2. How can the data for digital images be compressed?</li> <li>3. How do I identify and explain the fetch, decode and execute cycle?</li> <li>4. How to learn the basics of using Tinkercad through tutorials</li> <li>5. How do I use Tinkercad to design a tyre for the Mars Rover?</li> </ol>	<p><b>Computing systems and Networks: Search Engines</b></p> <ol style="list-style-type: none"> <li>1. What is a search engine and how is it used?</li> <li>2. How do I know if something online is true?</li> <li>3. How can I search effectively?</li> <li>4. How can I create an information poster?</li> <li>5. How do search engines work?</li> </ol>	<p><b>Creating Media: Stop motion animation</b></p> <ol style="list-style-type: none"> <li>1. What is animation?</li> <li>2. What is stop motion animation?</li> <li>3. How can I plan a stop motion video?</li> <li>4. How do I create a stop motion animation?</li> <li>5. How do I edit my stop motion animation?</li> </ol>	<p><b>Creating Media: Website Design</b></p> <ol style="list-style-type: none"> <li>1. What are the features of Google sites?</li> <li>2. How do I plan content for a collaborative webpage?</li> <li>3. How do I create a web page?</li> <li>4. How do I plan and create a website?</li> <li>5. Create and evaluate a website</li> </ol>
6	<p><b>Online Safety</b></p> <ol style="list-style-type: none"> <li>1. Can I explain online issues that give us negative feelings?</li> <li>2. What are the consequences and impact of sharing online?</li> <li>3. How do I create a positive online reputation?</li> <li>4. How do I capture bullying content as evidence?</li> </ol>	<p><b>Data handling: Big data – QR codes</b></p> <ol style="list-style-type: none"> <li>1. How do barcodes and QR codes work?</li> <li>2. How do infrared waves transmit data?</li> <li>3. How is RFID used?</li> <li>4. How do I input and analyse real-world data?</li> </ol>	<p><b>Computing systems and networks: Bletchley Park</b></p> <ol style="list-style-type: none"> <li>1. To know that there are many different types of secret codes.</li> <li>2. Why is it important to have a secure password?</li> <li>3. What was the importance of Bletchley Park to the WW2 effort?</li> </ol>	<p><b>Creating Media: History of computers</b></p> <ol style="list-style-type: none"> <li>1. How can I create audio recordings?</li> <li>2. How do I record, edit and add sound effects to a radio play?</li> <li>3. How have computers changed and what impact has this had on the modern world?</li> </ol>	<p><b>Programming: Micro Bit</b></p> <ol style="list-style-type: none"> <li>1. What is BBC Micro:bit?</li> <li>2. How do I program an animation?</li> <li>3. How do I recognise coding structures?</li> <li>4. How do I create a program for a specific task?</li> <li>5. How do I create a program?</li> </ol>	<p><b>Skills showcase: Inventing a product</b></p> <ol style="list-style-type: none"> <li>1. Can I design an electronic product?</li> <li>2. How do I code and debug a program?</li> <li>3. How do I use CAD software to design a product?</li> <li>4. How can I create a website?</li> </ol>

	5. How do I manage personal passwords effectively? 6. What are the strategies that help protect people online?	5. How do i analyse and evaluate data?	4. Who are the historical figures that contributed to technological advancements in computing? 5. Research and present information about historical figures in computing	4. Research one of the computers that changed the world and present information about it. 5. What would my computer of the future be like?		5. What will be in my video advert?
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