



Computing 25/26 MTP

Team	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
3	<p>Online Safety</p> <ol style="list-style-type: none"> 1. How can we use the internet safely? 2. How can I keep safe online? 3. How can my emotions be affected from being online? 4. How should I post and share stuff online? 5. How much time should we spend on technology? 6. How to get to know your new laptop? 	<p>Word processing</p> <ol style="list-style-type: none"> 1. How do I use a computer keyboard? 2. How can I use a word processing application to support my typing skills? (part 2) 3. How can I use a word processing application to support my typing skills? (part 1) 4. How do I touch type? 5. How do I touch type? (part 2) 6. Can I create my own digital piece of writing? 	<p>Programming using Scratch</p> <ol style="list-style-type: none"> 1. What can you create with code? - An Introduction to Scratch Jr. 2. How can I explore and explain the different blocks in Scratch? 3. Can I program an animation to complete a story in Scratch? 4. How can I plan a remix altering the programs code? 5. Can I create a remix by altering the programs code? 6. Can I evaluate an animation I have altered on Scratch? 	<p>Data Handling – Comparison cards databases</p> <ol style="list-style-type: none"> 1. What is the terminology around databases? 2. Can I create digital art depicting the St Piran's story? (5th March) 3. What are the differences between paper and computerised databases? 4. How do I sort, filter and interpret data? 5. How can I represent data in different ways? 6. Can I explain what information is important on an online database? 	<p>Creating media – digital imagery</p> <ol style="list-style-type: none"> 1. How do I plan a photo story using a sequence of pictures? 2. How can I take photos? 3. How do I edit photos? 4. Can I use a search engine to search and import images? 5. How do I create a photo collage? 	<p>Computing systems and networks</p> <ol style="list-style-type: none"> 1. What is a network? 2. How does information move around a network? 3. How does a website work? 4. What is the role of a router? 5. What is packet data?
4	<p>Online Safety</p> <ol style="list-style-type: none"> 1. What happens when I search online? 2. How do companies encourage you to buy online? 3. How do I know if it's fact, opinion or belief? 4. What is a bot? 5. What is my tech time-table like? 6. Which digital games help us learn the best? 	<p>Data handling – Weather</p> <ol style="list-style-type: none"> 1. What is weather? 2. What are weather stations? 3. What is extreme weather? 4. How can satellites be used to forecast the weather? 5. How can we present a weather forecast? 6. Which digital games can support me with my learning? 	<p>Computing Systems and Networks – Collaborative learning</p> <ol style="list-style-type: none"> 1. What behaviour is appropriate when collaborating online? 2. How can I make suggestions or comments on someone else's work using word processing software? 3. How can I understand that software can be used to work online collaboratively? 4. How do I create effective presentations on Google Slides? 5. How can I make improvements and share my presentation on Google Slides? 6. How do I use a shared spreadsheet to explore data? 	<p>Skills Showcase: HTML</p> <ol style="list-style-type: none"> 1. What is HTML? 2. Can I create digital art depicting the St Piran's story? (5th March) 3. How can I remix HTML? 4. How can I translate HTML from code to image and text? 5. How do I alter the HTML on a live web page? 6. How do I alter an image on a web page? 	<p>Programming: Further coding with Scratch.</p> <ol style="list-style-type: none"> 1. How can I explore Scratch using variables and conditions? 2. How can I use conditions and sensors to control what happens in a Scratch game? 3. What variable can I create to keep score in a game? 4. How can I combine variables to program a game? 5. Can I evaluate a game I have programmed on Scratch? 	<p>Computing systems and networks 2: Emailing</p> <ol style="list-style-type: none"> 1. What different ways do we communicate with technology? 2. How can I send an email? 3. How do I create an email with an attachment? 4. Why is important to be kind online? 5. When is an email not genuine and how will I know?
5	<p>Online Safety</p> <ol style="list-style-type: none"> 1. How can you protect yourself online? 2. How can I communicate well online? 3. What is the importance of having a good online reputation? 4. How can we overcome online bullying? 5. How can technology affect our health and wellbeing? 6. Which digital games help us learn the best? 	<p>Data Handling: Mars Rover</p> <ol style="list-style-type: none"> 1. How and why is data collected from space? 2. How do I read and calculate numbers using binary code? 3. What is the computer architecture of the Mars Rover? 4. What are the simple operations needed to calculate bit patterns? 5. Can I create and represent binary as text? 6. How can I use stop motion to create a short story? 	<p>Skills Showcase: Mars Rover 2 – CAD (Computer Aided Design)</p> <ol style="list-style-type: none"> 1. How do bit patterns represent images as pixels? (part 1) 2. How do bit patterns represent images as pixels? (part 2) 3. How can the data for digital images be compressed? 4. How do I identify and explain the fetch, decode and execute cycle? 5. How do I learn the basics of using Tinkercad through tutorials? 	<p>Computing systems and Networks: Search Engines</p> <ol style="list-style-type: none"> 1. What is a search engine and how is it used? 2. Can I create digital art depicting the St Piran's story? (5th March) 2. How do I know if something online is true? 4. How can I search effectively? 5. How can I create an information poster? 6. What is the role of a web 	<p>Creating Media: Stop motion animation</p> <ol style="list-style-type: none"> 1. What is animation? 2. What is stop motion animation? 3. How can I plan a stop motion video? 4. How do I create a stop motion animation? 5. How do I edit my stop motion animation? 	<p>Creating Media: Website Design</p> <ol style="list-style-type: none"> 1. What are the features of Google Sites? 2. Can I plan content for a collaborative webpage? 3. How can I collaborate creating a website? 4. How do I plan a website using Google Sites? 5. How do I create a web page on Google Sites?

			6. How do I use Tinkercad to design a tyre for the Mars Rover?	crawler?		
6	<p>Online Safety</p> <ol style="list-style-type: none"> 1. Can I explain online issues that give us negative feelings? 2. What are the consequences and impact of sharing online? 3. How do I create a positive online reputation? 4. How do I capture bullying content as evidence? 5. How do I manage personal passwords effectively? 6. What are the strategies that help protect people online? 	<p>Data handling: Big data – QR codes</p> <ol style="list-style-type: none"> 1. How do barcodes and QR codes work? 2. How do infrared waves transmit data? 3. How can encoding keep RFID data safe? 4. How can we use data to solve problems? 5. How can I use stop motion to create a short story? 	<p>Computing systems and networks: Bletchley Park</p> <ol style="list-style-type: none"> 1. How can I understand that there are many different types of secret codes? 2. Can I understand brute force hacking and the importance of a secure password? 3. Can I research and present historical figures that contributed to technological advancements in computing? 4. How can I create a computer of the future? 5. How can I plan a script to create audio adverts for future computers? 6. Can I create an audio advert for future computers? 	<p>Computing systems and Networks: Exploring AI</p> <ol style="list-style-type: none"> 1. What is AI? 2. Can I create digital art depicting the St Piran's story? (5th March) 3. How can we use AI and text? 4. Can I explain the key ethical considerations of AI? 5. What is machine learning? 6. How can I generate HTML through AI? 	<p>Programming: Micro Bit</p> <ol style="list-style-type: none"> 1. What is BBC Micro:bit? 2. How do I program an animation using Micro:bit? 3. How to create a pedometer using a Micro:bit? 4. How can I use tutorials to create code with Micro:bit? 5. How do I create a program? 	<p>Skills showcase: Inventing a product</p> <ol style="list-style-type: none"> 1. How can I 'tinker' with a new piece of software? Introduction to Logo. 2. Can I understand nested loops in a code? 3. How can I use basic Python commands? 4. How can I use loops in Python whilst programming? 5. Can I write an algorithm to create a piece of digital art?