


Computing Whole School Overview 2021-22

Pupils will be taught...

	Autumn Term	Spring Term	Summer Term
Year 1	<p>Logging in to the system Toys</p> <ul style="list-style-type: none"> • Images on 2CASS – sneaky programming • Robot building • Lego building – Brick challenges, transfer to computer • Beebot control 	<p>Animals Digital Art</p> <ul style="list-style-type: none"> • Introduction to the Purplemash platform • Digital Literacy using Purplemash platform. • Desktop publishing related to topic work • Digital Art making linked to key artists 	<p>Games Making Stem Challenges</p> <ul style="list-style-type: none"> • Continuing with Purplemash platform • Games making using 2DIY • Games linked to Topic work • Stem based challenges. Hands on building and making. Lego/card/outdoors • Lateral thinking exercises
Year 2	<p>Local Area Online Learning Platforms</p> <p>Local Area –</p> <ul style="list-style-type: none"> • Manningham Mills. Weaving algorithms, textile industry. • Clicker 7 – Family trees • Maps – Directions home, follow simple instructions <p>Great Fire of London</p> <ul style="list-style-type: none"> • Pupils will use different aspects of digital media when looking at this topic. • This will include 2simple software, paint.net and purplemash 	<p>Cold Places Data Logging</p> <ul style="list-style-type: none"> • Data collecting using data loggers. • Creating simple databases. • Editing databases using Purplemash <p>Hot and Cold – Digital media</p> <ul style="list-style-type: none"> • Creating/manipulating and saving content based on the class text 'Where the Wild Things Are'. Non-Chron reports on animals and beasts in a jungle, how we use a computer to create interesting settings • Minecraft – Igloos 	<p>Coding Introduction Seaside Topic Work</p> <p>Seaside – Digital Media</p> <ul style="list-style-type: none"> • Using images and themes from the classroom and visit pupils are to create/manipulate/edit/save/load work • This will include 2simple software, paint.net and purplemash <p>Coding Intro</p> <ul style="list-style-type: none"> • Using code.org to introduce coding. • Classes set up • Certificate at the end

<p>Year 3/4</p>	<p>Scratch Introduction Topic/Online Learning Platform</p> <ul style="list-style-type: none"> • Scratch Logons • Intro activities • Art work • Simple games <ul style="list-style-type: none"> • Topic work • Stone age related • Using search engines • Purplemash logins • Using the email system 	<p>Hello Ruby STEM Unplugged Learning</p> <ul style="list-style-type: none"> • Unplugged computing • Exploring the inside of a computer • Unplugged algorithms • Exploring the internet and how it works <ul style="list-style-type: none"> • Using coding and computers to create circuits. • Paper circuits to make torches • Makey Makey introduction • Simple challenges 	<p>Egypt Topic Work Digital Art</p> <ul style="list-style-type: none"> • 3d modelling - magicavoxel • beetleblocks - coding and art • 3dprinting • Cartouche building • Hieroglyphics <ul style="list-style-type: none"> • Using code to create art • Paint.net • Google Arts and Culture activities
<p>Year 5</p>	<p>Scratch Introduction Local Area Topic Work</p> <ul style="list-style-type: none"> • Scratch Logons • Intro activities • Art work • Simple games <ul style="list-style-type: none"> • Data collecting from school area • Building databases • Office 365 intro • Desktop publishing 	<p>Makey Makey Women in Tech</p> <ul style="list-style-type: none"> • Intro to the device • What does conductive mean? • Music making • Games making • Maker Mindset challenges <ul style="list-style-type: none"> • Detailed look at how women have influenced the world of STEM • Grace Hopper, Ada Lovelace, Katherine Johnson, Mae Jemison, Annie Easley • Desktop publishing, office 365 • Sway • Quiz/forms making 	<p>3D Modelling Space</p> <ul style="list-style-type: none"> • Sketchup/TinkerCAD/Magicavoxel • Links to numeracy for shape making • Using modelling to create space stations/ships • 3dprinting work <ul style="list-style-type: none"> • Using the internet to research information • Webpage building • Simple HTML coding to present work • Weeble/Wordpress possibilities

<p style="text-align: center; font-size: 24px; font-weight: bold;">Year 6</p>	<p>Microbit Networks and Computing</p> <ul style="list-style-type: none"> • Networking topologies • Packet Tracer digital homes • Internet vs www • Impact of the internet on local communities, school, fake news, social media • Sending and transferring data packets • Independent Build challenges • Zip halo light rings – Christmas decorations • LED Light strips – Create wearables • Makecode activities • Adapt and use scroll:bit 	<p>Music Making Women in Tech</p> <ul style="list-style-type: none"> • creating marble mazes • digital on magicavoxel, create on 3d printer • build in cardboard • connect makey makey for sounds. • Sonic Pi – Text coding • Makey Makey – Guitars • Makey Makey – Sound bar • Microbit – Hack headphones 	<p>SATS Revision/ Retro Gaming Text Based Programming Languages</p> <ul style="list-style-type: none"> • Time for sats intervention groups and revision on the PCs. • Retro gaming unit as a stress relief. Well being! • Gaming competitions mixed with history of computers and hardware activities • Moving the pupils to text-based programming • CodeCombat • Micro:bit – Simple JavaScript challenges.
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