

Computing/IT OVERVIEW - 2018-2019



Autumn		Spring		Summer	
Key Stage 1 – MERCURY – Year 1					
Theme: Toys	Theme: Indian Spice	Theme: Poles Apart	Theme: Wonder Women	Theme: Journey through Europe	Theme:
Objectives & Skills: Safety set up Using the internet safely and identifying safe websites to use. Children will be writing up a set of rules describing how to stay safe online and establish the importance of being safe. They will also begin to recognise how the internet has dangers. Children will also be introduced to a number of programs and applications they will use this year.	Objectives & Skills: Multimedia Creating simple text and images focusing on skills: Locating letters, space bar, full stops, shift to enter capital letters, backspace to delete on the keyboard. Children to use the internet and the keyboard buttons to look up information on India Resources: iPads- LGFL J2Publish, Microsoft Word.	Objectives & Skills: Data Children will learn how to collect information on a rainfall in different continents and then to present this data in a class pictogram. Children then to take it turns to read data from the pictogram that has been produced (Maths objectives). Resources: I-Pads, LGFL 2Count.	Objectives & Skills: Digital Media Children will explore and develop their skills on creating digital artwork using a number of online drawing facilities. Resources: I-pads, LGFL J2Paint, Microsoft Paint, Microsoft Word.	Objectives & Skills: Communication Online research for the topic of A journey through Europe using child-friendly and appropriate search engines. Children to investigate search results and identify how clicking a link directs them to a new webpage. Resources: Google and other search engines on internet explorer.	Objectives & Skills: Programming By beginning to use algorithms, children will initially use Beebots to move hardware around. After confidence and understanding has grown, children will begin to use their programming skills on Scratch Jr. (on iPads) to create characters and settings of their own. Resources: Beebots, Scratch Jr, Code.org and iPads.
<i>e-Safety focus: Creating rules to keep us safe</i>	<i>e-Safety focus : Understanding the impact of other's behaviour</i>	<i>e-Safety focus: Remembering to take time out from technology</i>	<i>e-Safety focus: Understanding what is meant by personal information</i>	<i>e-Safety focus: Finding out what it means to be a good digital citizen</i>	<i>e-Safety focus: Learning how to stay safe when playing online games</i>
Key Stage 1 – VENUS– Year 1 & 2					
Theme: Toys	Theme: Indian Spice	Theme: Poles Apart	Theme: Wonder Women	Theme: A journey Through Europe	Theme:
Objectives & Skills: Staying safe online Children will explore how to use some of the apps and sites that will be viewed over the coming year. Children will also be shown how to log into and save on these sites.	Objectives & Skills: Multimedia Using both Microsoft Word and LGFL JILT, children will create simple storyboards and learn how to insert pictures and text into a document comparing and	Objectives & Skills: Data Children to collect data on rainfall in different countries and then using this data to design and collect information for a simple questionnaire	Objectives & Skills: Digital Media Children will explore and develop their skills on creating digital artwork using a number of online drawing facilities. Related to their topic of Wonder Women	Objectives & Skills: Communication Children to write simple blogs, using multimedia devices, and explore the importance of checking their blogs before posting online. Children to write as though	Objectives & Skills: Programming Students will create programs with loops, events, and conditionals. They will translate their initials into binary, investigate different problem-solving techniques,

Resources: laptops/ i-pads	contrasting the differences between the UK and India. Resources: IPads and LGFL JILT	Create simple graph of either bar charts or pictograms (Maths objectives). Resources: I-pads, LGFL 2count	Resources: I-pads, LGFL J2Paint, Microsoft Paint, Microsoft Word.	they have been on a Journey through Europe. Resources: I-pads and J2blog	and discuss how to respond to cyberbullying. By the end of the course, students will create interactive games that they can share. J2code and Code.org
<i>e-Safety focus:</i> Reviewing and editing our online safety guidelines	<i>e-Safety focus:</i> Creating a strong message against online bullying	<i>e-Safety focus:</i> Learning how to use search engines safely	<i>e-Safety focus:</i> Generating strong passwords and keeping them safe	<i>e-Safety focus:</i> Solving online safety problems	<i>e-Safety focus:</i> Understanding and applying the PEGI rating system for games

Key Stage 1 – EARTH – Year 2

Theme: Toys	Theme: Indian Spice	Theme: Poles Apart	Theme: Wonder Women	Theme: A journey through Europe	Theme:
Objectives & Skills: Staying safe online Children will explore how to use some of the apps and sites that will be viewed over the coming year. Children will also be shown how to log into and save on these sites. Resources: laptops/ i-pads	Objectives & Skills: Multimedia Using both Microsoft Word and LGFL JILT, children will create simple storyboards and learn how to insert pictures and text into a document comparing and contrasting the differences between the UK and India. Resources: IPads and LGFL JILT	Objectives & Skills: Data Children to collect data on rainfall in different countries and then using this data to design and collect information for a simple questionnaire Create simple graph of either bar charts or pictograms (Maths objectives). Resources: I-pads, LGFL 2count	Objectives & Skills: Digital Media Children to create and design a simple animation using LGFL JIT. To help with their topic of Wonder Women. Resources: LGLF JIT	Objectives & Skills: Communication Children to write simple blogs, using multimedia devices, and explore the importance of checking their blogs before posting online. Children to write as though they have been on a journey through Europe. Resources: I-pads and J2blog	Objectives & Skills: Programming Students will create programs with loops, events, and conditionals. They will translate their initials into binary, investigate different problem-solving techniques, and discuss how to respond to cyberbullying. By the end of the course, students will create interactive games that they can share. J2code and Code.org

Key Stage 2 – MARS – Year 3

Theme: Extreme survival	Theme: Transport	Theme: The world's kitchen	Theme: China	Theme: Meet the Flintstones	Theme:
Objectives & Skills: Housekeeping Children will explore how to use some of the apps and sites that will be viewed over the coming year. Children will also be shown how to log into and save on these sites.	Objectives & Skills: Multimedia Pupils will focus on taking pictures of transport throughout the ages then learning how to edit, resize and recolour the photo that they have taken.	Objectives & Skills: Communication Children to write up reviews or describe world foods using a range of different sources Word or J2e. (Work related to the class' topic) to create an online blog.	Objectives & Skills: Data Children will design and collect information for a simple questionnaire asking a question about China such as where they would most like to travel in the country.. They will then use this data	Objectives & Skills: Digital Media Children will learn to draw and use more advanced tools in computing animation. Pupils will also be shown how to edit images they have taken using a number of different tools. These will	Objectives & Skills: Coding/Programming Pupils develop their understanding of algorithms, nested loops, 'while' loops, conditionals, and events. Beyond coding, students learn about digital citizenship.

Resources: laptops/ i-pads	Children will then use these photos to create a video presentation using digital photographs Movie Maker/ Children will carry on looking into the home buttons on the keyboard. Resources: Photo edit apps, iMovie app, i-pads	Resources: IPad/laptops, Microsoft Word, LGFL J2E.	to produce a bar-graph (Maths objectives). Collect data and present in a variety of formats, e.g. PurpleMash 2Caluculate. 2graph. Resources: IPad or laptops. LGFL 2graph, purpleMahs or 2caculate.	help children add more colour, change the perception of a photograph and crop items out of photos. Resources: LGFL JILT, Ipads or laptops	Resources: i-pads and code.org
<i>e-Safety focus: Reviewing and editing our online safety rules</i>	<i>e-Safety focus: Developing an awareness of online bullying</i>	<i>e-Safety focus: Assessing the trustworthiness of websites</i>	<i>e-Safety focus: Understanding the digital trails we leave behind</i>	<i>e-Safety focus: Practising good netiquette</i>	<i>e-Safety focus: Who do we really know online?</i>

Key Stage 2 – JUPITER – Year 3 & 4

Theme: Extreme survival	Theme: Transport	Theme: The world's kitchen	Theme: China	Theme: Meet the Flintstones	Theme:
Objectives & Skills: Housekeeping Children will explore and begin to upload apps and websites which will be used throughout the upcoming year. Resources: laptops/iPad, websites and apps for the year	Objectives & Skills: Multimedia Children will begin to use Word, docs & Publisher (using a wide range of tools and integrating other online resources: hyper linking to appropriate websites, embedding content, acknowledging sources.) Children will also begin exploring how to touch type (using 2 hands to type) Children will write up an information text on how transport has changed over the years. Resources: Laptops/i-Pads, Word, Publisher	Objectives & Skills: Communication Children will review blogs (related to the class' topic) by other users and explain what they like and don't like. Children to explore what makes a good blog. Children to write a blog on world's foods tasting. Children will begin to use online research: use search technologies effectively including search tools, e.g. searching maps/images Resources: i-pads/laptops, LGFL blogs, search engines	Objectives & Skills: Data Children to record and upload data into a Spread sheet. Then using this data present it in a number of different ways. Including a bar chart and a line graph (maths objectives) The research will be related to China such as favourite Chinese food. Finally, children to use their produced data to search for information and gather information quickly. Resources: iPad/laptops, excel, 2graph	Objectives & Skills: Digital Media Digital artwork portfolio and interactive webpages for blog (J2e5 on LGFL) Video: re-edit video footage to create own presentation - iMovie, Movie Maker Music/Sound: Radio Programme project (listen, evaluate, plan and write a script. Rehearse/record voice. Create/add backing track and sound effects.) Resources: laptops/iPad J2d, iMovie and Gragaband apps	Objectives & Skills: Coding/Programming Students develop their understanding of algorithms, nested loops, while loops, conditionals, and events. Beyond coding, students learn about digital citizenship. Resources: IPad/laptops, Code.org
<i>e-Safety focus: Reviewing and editing our online safety rules.</i>	<i>e-Safety focus: Dealing positively with peer pressure</i>	<i>e-Safety focus: Dealing positively with peer pressure</i>	<i>e-Safety focus: Understanding risk and prevention of information loss</i>	<i>e-Safety focus: Understanding and respecting digital rights and responsibilities</i>	<i>e-Safety focus: Virtual friendship vs real friendship; who we can trust</i>

Key Stage 2 –SATURN – Year 4

Theme: Mexico and Mayans	Theme: Yes Minster	Theme: Walls and Barricades	Theme: Disaster	Theme: Invaders	Theme:
<p>Objectives & Skills:</p> <p>Research using the net safely exploring who were the Mayans</p> <p>Children will explore and begin to uploads apps and websites which will be used throughout the upcoming year. Exploring who were The Mayans and what is Mexico like.</p> <p>Resources: laptops/ipads, websites and apps for the year</p>	<p>Objectives & Skills:</p> <p>Data- inputting and analysing data from elections</p> <p>Children to create spreadsheet on election results. Then using this spreadsheet, to formulate graphs.</p> <p>Resources: ipads/laptops and Excel and J2Data.</p>	<p>Objectives & Skills:</p> <p>Digital multimedia-</p> <p>Children to work on visual and sound affects walls and barricades in the following areas:</p> <p>Video & Sound: Film project (related to topic) in groups (plan a video, use different filming techniques and sound effects, present and evaluate work to audience) - iMovie, Movie Maker, Audio Network, GarageBand</p> <p>Music/Sound: Radio Program (related to topic) project (listen, evaluate, plan and write a script. Rehearse and record voice. Create and add backing track and sound effects.) Audacity, Audio Network.</p> <p>Resources: Ipads/ laptops and Garage bands, LGFL Audiocity,</p>	<p>Objectives & Skills:</p> <p>Programming/coding-</p> <p>Students create programs with different kinds of loops, events, functions, and conditionals. They will also investigate different problem-solving techniques and discuss societal impacts of computing and the internet. In the second part of this course students design and create a capstone project they can share. Children to attempt to create a volcano erupting on the coding games.</p> <p>Resources: ipads/laptops and code.org</p>	<p>Objectives & Skills:</p> <p>Communication</p> <p>Children to read and reviews blogs from other schools and identify what they like about the blogs.</p> <p>Children to begin designing a blog that is linked to their topic. Children to design edit and review their work for a blog. Children to write a blog as though they are an invader themselves.</p> <p>Resources: Ipads/laptops, Word, PowerPoint. LGFL J2Create, J2E blog.</p>	<p>Objectives & Skills:</p> <p>Multimedia and processing</p> <p>Children will learn to upload their work into a presentation (related to topic) and then learn how to review and edit their work after initially entering their information.</p> <p>Children will begin to review and reflect on each other's presentations</p> <p>Finally, children will begin to grow in confidence in using both hands to type on a keyboard.</p> <p>Resources: ipads/laptops, LGFL, 2Create, Powerpoint, Word, Publisher</p>
<i>e-Safety focus: Reviewing and editing our online safety rules</i>	<i>e-Safety focus: Understanding the impact of online behaviour</i>	<i>e-Safety focus: Understanding advertising and endorsements online</i>	<i>e-Safety focus: Developing strategies to protect our future selves</i>	<i>e-Safety focus: Understanding and applying copyright laws</i>	<i>e-Safety focus: Understanding how games developers make money</i>

Key Stage 2 – NEPTUNE – Year 5

Theme: Mexico and Mayans	Theme: Yes Minster	Theme: Walls and Barricades	Theme: Disaster	Theme: Invaders	Theme:
<p>Objectives & Skills:</p> <p>Research using the net safely exploring</p> <p>Children will explore and begin to uploads apps and websites which will be used</p>	<p>Objectives & Skills:</p> <p>Data-</p> <p>Children to review how to use Excel and Spreadsheets to input data relating to election results. Children to use graphs that they have</p>	<p>Objectives & Skills:</p> <p>Digital multimedia-</p> <p>Children to work on visual and sound affects walls and barricades in the following areas:</p>	<p>Objectives & Skills:</p> <p>Programming/coding-</p> <p>Students create programs with different kinds of loops, events, functions, and conditionals. They will also</p>	<p>Objectives & Skills:</p> <p>Communication</p> <p>Children to read and reviews blogs from other schools and identify what they like about the blogs.</p>	<p>Objectives & Skills:</p> <p>Multimedia and processing</p> <p>Children will learn to upload their work into a presentation (related to topic) and then learn how to review and edit their work after initially</p>

<p>throughout the upcoming year. Exploring who were the Mayans and what is Mexico like.</p> <p>Resources: laptops/ipads, websites and apps for the year</p>	<p>created, to make conclusions about the election results.</p> <p>Resources: ipads/laptops and Excel and J2Data.</p>	<p>Video & Sound: Film project (related to topic) in groups (plan a video, use different filming techniques and sound effects, present and evaluate work to audience) - iMovie, Movie Maker, Audio Network, GarageBand Music/Sound: Radio Program (related to topic) project (listen, evaluate, plan and write a script. Rehearse and record voice. Create and add backing track and sound effects.) Audacity, Audio Network.</p> <p>Resources: Ipads/ laptops and Garage bands, LGFL Audacity,</p>	<p>investigate different problem-solving techniques and discuss societal impacts of computing and the internet. In the second part of this course students design and create a capstone project they can share. Children to attempt to create a volcano erupting on the coding games.</p> <p>Resources: ipads/laptops and code.org</p>	<p>Children to begin designing a blog that is linked to their topic. Children to design edit and review their work for a blog. Children to write a blog as though they are an invader themselves.</p> <p>Resources: Ipads/laptops, Word, PowerPoint. LGFL J2Create, J2E blog.</p>	<p>entering their information.</p> <p>Children will begin to review and reflect on each other's presentations</p> <p>Finally, children will begin to grow in confidence in using both hands to type on a keyboard.</p> <p>Resources: ipads/laptops, LGFL, 2Create, Powerpoint, Word, Publisher</p>
<p>e-Safety focus: Reviewing and editing our online safety rules</p>	<p>e-Safety focus: Understanding the impact of online behaviour</p>	<p>e-Safety focus: Understanding advertising and endorsements online</p>	<p>e-Safety focus: Developing strategies to protect our future selves</p>	<p>e-Safety focus: Understanding and applying copyright laws</p>	<p>e-Safety focus: Understanding how games developers make money</p>

Key Stage 2 – PLUTO– Year 6

Theme: Mexico and Mayans	Theme: Yes Minster	Theme: Walls and Barricades	Theme: Disaster	Theme: Invaders	Theme:
<p>Objectives & Skills:</p> <p>Research using the net safely</p> <p>Children to review how to log into a number of different website and applications which will be used throughout the year. Researching who were the Mayans and information on Mexcio.</p> <p>Resources: ipads/laptops, websites, apps.</p>	<p>Objectives & Skills:</p> <p>Data- Children to input information on elections into a Spreadsheet and present this data in a number of different tables and charts.</p> <p>Resources: ipads/laptops and Excel and J2Data.</p>	<p>Objectives & Skills:</p> <p>Digital multimedia</p> <p>Children to work on visual and sound affects relating to walls and barricades in the following areas:</p> <p>Video & Sound: Film project (related to topic) in groups (plan a video, use different filming techniques and sound effects, present and evaluate work to audience) - iMovie, Movie Maker, Audio Network, GarageBand Music/Sound: Radio Program (related to topic) project</p>	<p>Objectives & Skills:</p> <p>Programming/coding-</p> <p>Students create programs with different kinds of loops, events, functions, and conditionals. They will also investigate different problem-solving techniques and discuss societal impacts of computing and the internet. In the second part of this course students design and create a capstone project they can share. Children to attempt to create a volcano erupting on the coding games.</p>	<p>Objectives & Skills:</p> <p>Communication</p> <p>Children to read and reviews blogs from other schools and identify what they like about the blogs.</p> <p>Children to begin designing a blog that is linked to their topic. Children to design edit and review their work for a blog. Children to write a blog as though they are an invader themselves.</p> <p>Resources: Ipads/laptops, Word, PowerPoint. LGFL J2Create, J2E blog.</p>	<p>Objectives & Skills:</p> <p>Multimedia and processing</p> <p>Children will learn to upload their work into a presentation (related to topic) and then learn how to review and edit their work after initially entering their information.</p> <p>Children will begin to review and reflect on each other's presentations</p> <p>Finally, children will begin to grow in confidence in using both hands to type on a keyboard.</p>

		<p>(listen, evaluate, plan and write a script. Rehearse and record voice. Create and add backing track and sound effects.) Audacity, Audio Network.</p> <p>Resources: Ipads/ laptops and Garage bands, LGFL Audiocity,</p>	<p>Resources: ipads/laptops and code.org</p>		<p>Resources: ipads/laptops, LGFL, 2Create, Powerpoint, Word, Publisher</p>
<p><i>e-Safety focus: Reviewing and editing our online safety rules</i></p>	<p><i>e-Safety focus: Inappropriate use of technology and the internet – nude selfies</i></p>	<p><i>e-Safety focus: Understanding that internet safety skills must always be switched on</i></p>	<p><i>e-Safety focus: Respecting the personal information and privacy of others</i></p>	<p><i>e-Safety focus: Using our skills to resolve unfamiliar situations</i></p>	<p><i>e-Safety focus: Creating and delivering advice on safe online gaming</i></p>