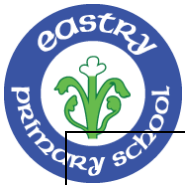


EASTRY C OF E PRIMARY SCHOOL KNOWLEDGE ORGANISERS



YEAR GROUP	3		
SUBJECT	Computing		
KEY VOCABULARY	Action, alert, algorithm, command, collision detection, command, debug, develop, event, execute, flow chart, procedure, repeat, sequence, scene, timer	Advance mode, move cell tool, spin tool, equals tool, top/home bottom row key, space bar, branching database, data, question, field, graph, text box, design theme, text formatting, presentation program, slide show, word art, media, stock images	Communication, email, compose, send, attachment, address book, save to draft, password, CC, formatting
END POINTS KNOWLEDGE Computer science Information technology Digital literacy	<p>I know what a flowchart is and how flowcharts are used in computer programming.</p> <p>I understand that there are different types of timers and select the right type for purpose.</p> <p>I know how to use the repeat command.</p> <p>I know the importance of nesting.</p> <p>I know how to design and create an interactive scene.</p> <p>I know how to use the symbols more than, less than and equal to, to compare values.</p> <p>I know how to use 2Calculate to collect data and produce a variety of graphs.</p> <p>I know how to use the advanced mode of 2Calculate to learn about cell references.</p> <p>I know several ways to report unacceptable content and contact.</p> <p>I know what is meant by the home, bottom, and top rows.</p> <p>I have developed the ability to touch type the home, bottom, and top rows.</p> <p>I know how to use two hands to type the letters on the keyboard.</p> <p>I know how to touch type using the left & right hand</p> <p>I am beginning to think about different methods of communication.</p> <p>I am beginning to know how to open and respond to an email using an address book.</p> <p>I know how to use email safely.</p> <p>I(beginning to) know how to add an attachment to an email.</p> <p>I am beginning to explore a simulated email scenario.</p>		



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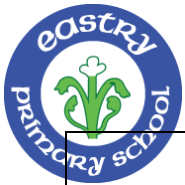


I know how to sort objects using just 'yes' or 'no' questions.
I know how yo complete a branching database using 2Question. (of the children's choice)
I am beginning to know what simulations are & explore/analyse & evaluate a simulation.
I know how to enter data into a graph and answer questions.
I know how to solve an investigation and present the results in graphic form.
I am beginning to understand the purpose of the Slides tool & add slides (& or) to presentations
I know how to format text appropriately.
I know how to add shapes and lines to enhance a presentation.
I know how to use the skills learnt to design and create an engaging presentation.
I know the uses of PowerPoint.
I know how to create a page in a presentation.
I know how to add media / animation / timings to a presentation.

E-Safety

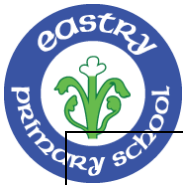
I know how to explain what is meant by the term 'identity'.
I know how to explain how I can represent myself in different ways online.
I know how to explain ways in which and why I might change my identity depending on what I am doing online (e.g. gaming; using an avatar; social media).
I know how to describe ways people who have similar likes and interests can get together online.
I know how to search for information about myself online.
I know how to explain what bullying is and can describe how people may bully others.
I know how to use key phrases in search engines.
I know how to explain why spending too much time using technology can sometimes have a negative impact on me; I can give some examples of activities where it is easy to spend a lot of time engaged (e.g. games, films, videos).
I know how to give reasons why I should only share information with people I choose to and can trust.
I know how to explain that if I am not sure or I feel pressured, I should ask a trusted adult.
I know how to explain why copying someone else's work from the internet without permission can cause problems.
I know how to give examples of technology- specific forms of communication (e.g. emojis, acronyms, text speak).

I know how to recognise I need to be careful before I share anything about myself or others online.
I know how to describe rules about how to behave online and how I follow them.
I know how to explain what autocomplete is and how to choose the best suggestion.



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	<p>I know how to understand and can give reasons why passwords are important.</p> <p>I know how I can give examples of what those problems might be.</p> <p>I know how I can explain some risks of communicating online with others I don't know well.</p> <p>I know who I should ask if I am not sure if I should put something online</p> <p>I know how to explain how the internet can be used to sell and buy things.</p> <p>I know how to describe simple strategies for creating and keeping passwords private.</p> <p>I know how to explain why I should be careful who I trust online and what information I can trust them with. I know how to explain the difference between a 'belief', an 'opinion' and a 'fact'.</p> <p>I know how to describe how connected devices can collect and share my information with others.</p> <p>I know how to explain how my and other people's feelings can be hurt by what is said or written online.</p> <p>I know how to explain why I can take back my trust in someone or something if I feel nervous, uncomfortable or worried.</p> <p>I know how to explain what it means to 'know someone' online and why this might be different from knowing someone in real life.</p> <p>I know how to explain what is meant by 'trusting someone online'. I can explain why this is different from 'liking someone online'.</p>
<p>IT HELPS IF I ALREADY KNOW</p>	<p>I know what an algorithm is. I know how to create a computer program using an algorithm.</p> <p>I know how to create a program using a given design. I understand that algorithms follow a sequence.</p> <p>I design an algorithm that follows a timed sequence. I understand what different events do in code. I understand and debug simple programs.</p> <p>I know how to use a program to create, organise, store, manipulate & retrieve digital content.</p> <p>I know how to use the 2Calculate to image, lock, move cell, speak and count tools to make a counting machine on a spreadsheet. I know how to use the totalling tools.</p> <p>I know how to use a spreadsheet for money calculations.</p> <p>I know how to use 2Calculate to collect data and produce a graph. (linked to topic – our favourite fruit)</p> <p>I know that data handling tools can give more information than pictograms.</p> <p>I know how to use yes/no questions to separate information.</p> <p>I know how to use 2Question (a binary tree database) to answer questions.</p> <p>I know how to use the Search tool to find information</p> <p>I am beginning to understand the terminology associated with searching.</p> <p>I have a better understanding of searching on the Internet.</p> <p>I know how to create a leaflet to help someone search for information on the Internet.</p> <p>I know the functions of the 2Paint a Picture tool.</p>



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I know how to recreate Pointillist art and look at the work of pointillist artists such as Seurat.

I know how to explore surrealism and eCollage.

I know how to make music digitally using 2Sequence.

I know how to explore, edit and combine sounds using 2Sequence.

I know how to upload a sound from a bank of sounds into the Sounds section.

I know how to record and upload environmental sounds into Purple Mash.

I know how yo use these sounds to create tunes in 2Sequence.

I know how to explore how a story can be presented in different ways.

I know how to make a quiz about a story or class topic.

I know how to make a presentation to the class.

E-safety

I know how other people's identity online can be different to their identity in real life.

I know ways in which people might make themselves look different online.

I know examples of issues online that might make me feel sad, worried, uncomfortable or frightened; I can give examples of how I might get help.

I know the internet can be used to communicate with people I don't know well (e.g. email a penpal in another school/ country).

I know examples of how I might use technology to communicate with others I don't know well.

I know how information put online about me can last for a long time.

I know who to talk if I think someone has made a mistake about putting something online.

I am able to give examples of bullying behaviour and how it could look online.

I understand how bullying can make someone feel

I can talk about how someone can/would get help about being bullied online or offline.

I am beginning to know how to use keywords in search engines.

I know how to navigate a simple webpage to get to information I need (e.g. home, forward, back buttons; links, tabs and sections).

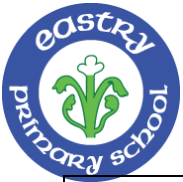
I know what voice activated searching is and how it might be used (e.g. Alexa, Google Now, Siri).

I know the difference between things that are imaginary, 'made up' or 'make believe' and things that are 'true' or 'real'.

I can describe and explain some rules for keeping my information private.

I know what passwords are and can use passwords for my accounts and devices

I know how many devices in my home could be connected to the internet and can list some of those devices.



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	I know that content on the internet may belong to other people.
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