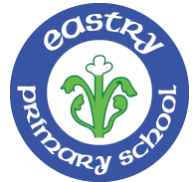
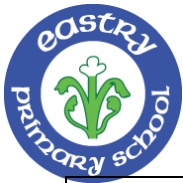


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YEAR GROUP	Year 5		
SUBJECT	Computing		
KEY VOCABULARY	Decomposition, abstraction, called, event, function, physical system, algorithm, IF, object,		
END POINTS KNOWLEDGE <u>STRAND</u> Digital literacy Computer science Information technology	<p>I am beginning to simplify code.</p> <p>I know how to create a playable game.</p> <p>I am beginning to understand what a simulation is.</p> <p>I know how to program a simulation using 2Code.</p> <p>I know what decomposition and abstraction are in computer science.</p> <p>I know how to take a real-life situation, decompose it and think about the level of abstraction.</p> <p>I know how to use friction in code.</p> <p>I am beginning to understand what a function is and how functions work in code.</p> <p>I know what the different variables types are and how they are used differently.</p> <p>I know how to create a string.</p> <p>I understand what concatenation is and how it works.</p> <p>I know how to use formulae within a spreadsheet to convert measurements of length and distance.</p> <p>I know how to use the count tool to answer hypotheses about common letters in use.</p> <p>I know how to use a spreadsheet to model a real-life problem.</p> <p>I know how to use formulae to calculate area and perimeter of shapes.</p> <p>I know how to create formulae that use text variables</p> <p>I know how to use a spreadsheet to help plan a school cake sale.</p> <p>I know how to search for information in a database.</p> <p>I know how to contribute to a class database.</p> <p>I know how to create a database around a chosen topic.</p> <p>I know how to plan a game</p> <p>I know how to design and create the game environment.</p> <p>I know how to design and create the game quest.</p> <p>I know finish and share the game.</p>		



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I know how to self and peer evaluate.

I am becoming familiar with 2Design and Make and the skills of computer aided design.

I know how to explore the effect of moving points when designing.

I know how to design a 3D Model to fit certain criteria

I know how to refine and print a model.

I know the need for visual representation when generating and discussing complex ideas.

I know the uses of a 'concept map'.

I understand and use the correct vocabulary when creating a concept map.

I know to create a concept map & how it can be used to retell stories and information

I know how to create a collaborative concept map and present this to an audience.

I know what a word processing tool is for.

I know how to add and edit images to a word document.

I know how to use word wrap with images and text.

I know how to change the look of text within a document.

I know how to add features to a document to enhance its look and usability.

I know how to use the sharing capabilities in Google Docs.

I know use tables within to present information.

I am becoming familiar with templates.

I know how to use tables within MS Word to present information

I am beginning to consider page layout including heading and columns.

E-Safety

I can demonstrate responsible choices about my online identity, depending on context.

I know that there are some people I communicate with online who may want to do me or my friends harm. I can recognise that this is not my/our fault.

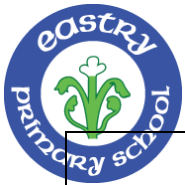
I can make positive contributions and be part of online communities.

I know some of the communities in which I am involved and describe how I collaborate with others positively.

I know how to search for information about an individual online and create a summary report of the information I find.

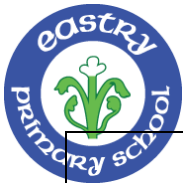
I know ways that information about people online can be used by others to make judgments about an individual.

I know when someone is upset, hurt or angry online.



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	<p>I know how to get help for someone that is being bullied online and assess when I need to do or say something or tell someone.</p> <p>I know how to block abusive users.</p> <p>I know how to use different search technologies</p> <p>I know how to evaluate digital content and can explain how I make choices from search results.</p> <p>I know key concepts including: data, information, fact, opinion belief, true, false, valid, reliable and evidence.</p> <p>I know ways technology can affect healthy sleep and can describe some of the issues.</p> <p>I know some strategies, tips or advice to promote healthy sleep with regards to technology.</p> <p>I know how to create and use strong and secure passwords.</p> <p>I know how many free apps or services may read and share my private information (e.g. friends, contacts, likes, images, videos, voice, messages, geolocation) with others.</p> <p>I know how and why some apps may request or take payment for additional content (e.g. in-app purchases) and explain why I should seek permission from a trusted adult before purchasing.</p> <p>I can assess and justify when it is acceptable to use the work of others.</p> <p>I know how to give examples of content that is permitted to be reused.</p>
IT HELPS IF I ALREADY KNOW	<p>I am beginning to understand selection in computer programming.</p> <p>I know how to use co-ordinates in computer programming.</p> <p>I know how to use the 'repeat until' command.</p> <p>I know how an IF/ELSE statement works. I am beginning to explain 'if statements'</p> <p>I understand what a variable is in programming.</p> <p>I know how to use a number variable.</p> <p>I know how to create a playable game.</p> <p>I know how to format cells as currency, percentage, decimal to different decimal places or fraction.</p> <p>I know how to use the formula wizard to calculate averages.</p> <p>I know how to combine tools to make spreadsheet activities such as timed times tables tests.</p> <p>I know how to use a spreadsheet to model a real-life situation.</p> <p>I know how to add a formula to a cell to automatically make a calculation in that cell.</p> <p>I know how to explore how font size and style can affect the impact of a text.</p> <p>I know how to use a simulated scenario to produce a news report</p> <p>I am beginning to know the structure of the coding language of Logo.</p> <p>I know how to input simple instructions in Logo.</p> <p>I know how to use 2Logo to create letter shapes.</p> <p>I know how to use the Repeat function in Logo to create shapes</p>



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I know how to use and build programmes on PCs

- I am beginning to know what makes a good animated film or cartoon.
- I am beginning to know how animations are created by hand.
- I am beginning to know how animation can be created in a similar way using the computer.
- I am beginning to learn about onion skinning in animation.
- I am beginning to add backgrounds and sounds to animations.
- I am beginning to be introduced to 'stop motion' animation.
- I am beginning to know how to share animation on the class display board and by blogging.
- I know how to locate information on the search results page.
- I know how to use search effectively to find out information.
- I know how to assess whether an information source is true and reliable.
- I understand the different parts that make up a computer.
- I know how to recall the different parts that make up a computer.
- I know how to identify and discuss the main elements of music.
- I know how to understand and experiment with rhythm and tempo.
- I know how to create a melodic phrase.
- I know how to electronically compose a piece of music.

E-safety

Self-image and identity

- I can explain how my online identity can be different to the identity I present in 'real life.
- I can describe the right decisions about how I interact with others and how others perceive me.

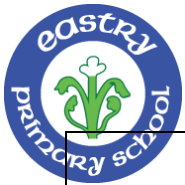
Online relationships

- I can describe strategies for safe and fun experiences in a range of online social environments.
- I can give examples of how to be respectful to others online.

Online reputation

- I can describe how others can find out information about me by looking online.
- I can explain ways that some of the information about me online could have been created, copied or shared by others.

Online bullying



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- I can identify some online technologies where bullying might take place.
- I can describe ways people can be bullied through a range of media (e.g. image, video, text, chat).
- I can explain why I need to think carefully about how content I post might affect others, their feelings and how it may affect how others feel about them (their reputation).

Managing online information

- I can analyse information and differentiate between 'opinions', 'beliefs' and 'facts'.
- I understand what criteria have to be met before something is a 'fact'.
- I can describe how I can search for information within a wide group of technologies (e.g. social media, image sites, video sites).
- I can describe some of the methods used to encourage people to buy things online (e.g. advertising offers; in-app purchases, pop-ups) and can recognise some of these when they appear online.
- I can explain why lots of people sharing the same opinions or beliefs online does not make those opinions or beliefs true.

Health, wellbeing and lifestyle

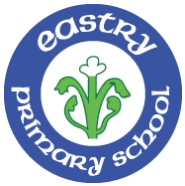
- I can explain how using technology can distract me from other things I might do or should be doing.
- I can identify times or situations when I might need to limit the amount of time I use technology.
- I can suggest strategies to help me limit this time.

Privacy and security

- I can explain what a strong password is.
- I can describe strategies for keeping my personal information private, depending on context.
- I can explain that others online can pretend to be me or other people, including my friends.
- I can suggest reasons why they might do this.
- I can explain how internet use can be monitored.

Copywrite and ownership

- When searching on the internet for content to use, I can explain why I need to consider who owns it and whether I have the right to reuse it.
- I can give some simple examples.



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