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NSNG1		CHOON

Medium-Term Planning Subject: Computing



Term and Year:	Year 1/2 – Autumn Term		
Teacher:	Miss Defty		
Subject:	Computing W/C 06.09.21 Y1: Improving Mouse Skills Y2: What Is A Computer?	W/C 11.10.21 Y1: Introduction to Data Y2: Word Processing	W/C 22.11.21 Y1: Online Safety Y2: Online Safety
Vocabulary that will be taught:	branching database, categorise, chart, footprint, emotion, feelings, instructior device, smartphone, smart TV, smartw		d, sort, table, camera, communicate, connect, console, devices, digital sonal information, phone, posting, predict, respect, sharing, smart
	technology, wires, backspace, bold, co	py, copyright, cut, delete, highlight, image, import, it ng, accept, comment, consent, content, emojis, offline	alics, keyboard, keyboard character, paste, redo, space bar, touch e, online, password, permission, personal information, private

National Curriculum Objectives:

- Use technology purposefully to create, organise, store, manipulate and retrieve digital content
- Recognise common uses of information technology beyond school
- Use logical reasoning to predict the behaviour of simple programs
- Use technology safely and respectfully, keeping personal information private; identify where to go for help and support when they have concerns about content or contact on the internet or other online technologies

Computing Skills that will be taught and assessed:

Year 1:

- Understanding that computers and devices around us use inputs and outputs, identifying some of these
- Learning where keys are located on the keyboard
- Understanding what the internet is
- Developing control of the mouse through dragging, clicking and resizing of images to create different effects
- Searching and downloading images from the internet safely
- Understanding that we are connected to others when using the internet
- Representing data in tables, charts and pictograms
- Sorting data and creating branching databases
- Identifying where digital content can have advantages over paper when storing and manipulating data
- Recognising common uses of information technology, including beyond school
- Understanding some of the ways we can use the internet
- Logging in and out and saving work on their own account
- Understand the importance of a password
- When using the internet to search for images, learning what to do if they come across something online that worries them or makes them feel uncomfortable
- $\ensuremath{\cdot}$ Recognising when someone has been unkind online
- Learning some top tips for staying safe online

• Understanding how we 'share' information on the internet

Year 2:

- Understanding what a computer is and that it's made up of different components
- Recognising that buttons cause effects and that technology follows instructions $\label{eq:recognized_eq}$
- Developing confidence with the keyboard and the basics of touch typing
- Developing word processing skills, including altering text, copying and pasting and using keyboard shortcuts
- Using word processing software to type and reformat text
- Understanding that personal information should not be shared on the internet.
- Learning how to be respectful to others when sharing content online.
- Learning how computers are used in the wider world
- Understanding that personal information should not be shared on the internet.
- Learning how to be respectful to others when sharing content online.

	Focus of each lesson	Activities/Key points
	'Can I' Statement(s) Y1: To log into a computer and access a website	
	• I can recognise what we mean by a computer	Demonstrate how to log in. Give the pupils a printout of their login information, so that they can type it
_	• I understand why we need to log in to a computer	themselves. You may find that some of the children are unfamiliar with both the mouse and keyboard, so take some time to explain how to use them. For the rest of the lesson, the children will explore Sketchpad.
Lesson 1	 I can log in and log out of an account on my computer 	some time to explain now to use them. For the rest of the tesson, the children will explore sketchpud.
esso	Y2: To recognise the parts of a computer	
	 I can name the key parts of a computer 	Children will learn the different parts of a computer. They will label a picture of a computer with the correct parts
	 I can explain that a keyboard contains lots of buttons 	and explain what each part is used for.
	• I can explain the purpose of different computer parts	
	Y1: To develop mouse skills	
	• I can log in and log out of an account on my computer	Children will use Sketchpad to create a simple background. They will then stamp Clipart over the top to create a
	 I can use Sketchpad to fill sections and stamp Clipart into place 	repetitive image. Demonstrate moving a Clipart stamp by using the 'Select' tool. Clicking and dragging changes the
n 2	• I can navigate a computer using a mouse	stamp's position.
Lesson	• I understand what we mean by drag and click	
Ļ	Y2: To recognise how technology is controlled	Children to label a robot and explain how it works. Their robot can do anything they want. The point of the
	• I know that people control technology	activity is for children to recognise that it will need buttons to control it (inputs), and perhaps even lights/sounds
	• I know that technology follows instructions	(outputs) to see what it's doing!
	• I can predict what technology will do Y1: To use mouse skills to draw and manipulate shapes	
	• I can log into a computer	
	• I can click and drag objects to change their size or position	Children to use "Sketchpad" to build on previous learning children use the mouse to draw shapes and move these
ŝ	• I can use a mouse to carefully position shapes	shapes using drag and drop techniques to create some work in the style of Wassily Kandinsky
	• I can move shapes in front of or behind each other	
Lesson	Y2: To recognise technology	
	• I can suggest what might have a computer inside	Explain to the children that they are going to go on a 'Technology Safari' around school and they'll need to keep
	• I can explain why I think this	their eyes peeled for technology that they see.
	• I can suggest what the technology does	
	Y1: To use a range of tools to create desired effects	
	• I can log into a computer	Children will be drawing pictures of scenes from 'The Three Little Pigs' on Sketchpad. The children will need to
	• I can identify key aspects from a story for my illustration	think about the paintbrushes that they will use to create the different textures, for example: 'Sketchy', 'Fur' and
4	• I can use drag and drop to resize and reposition objects	'Web' might be useful for creating the straw house.
- u	• I can use a variety of digital painting tools to create different effects	
Lesson	Y2: To create a design for an invention	
Ľ	• I can create a detailed plan	Explain to pupils that they're going to be inventors and create their own invention, using all the knowledge they've
	• I can include an input and output as part of my invention	learned about computers all around us. Their invention will have some kind of computer inside of it, but what it
	• I can explain how it works, including how to control it	does is entirely up to them.
	• I can label my design clearly	
	Y1: To understand how to layer shapes to create an image	
	• I can identify key features of my face, breaking it down into simple shapes	The children are to draw self-portraits using Sketchpad. The children should choose appropriate tools in Sketchpad
	• I can use click and drag to create and layer simple shapes	to draw each facial feature to create their self-portraits.
л С	• I can use different tools to create a desired effect	5 5 51
Lesson	• I can resize, reposition and change the order of shapes	
Le	Y2: To understand the role of computers	Explain that we're going to be learning what computers do through roleplay in a shop setting. In some shops, a
	• I can explain where computers are used	computer is tasked with keeping track of when items are running out, but often it's a person who is left to keep
	• I can suggest what their job is	track of what needs replacing and ordering more, so having a database is really valuable.
	• I understand that computers work together	

Lesson 1	 Y1: To represent data in different ways I know that data can be shown in different ways I can represent data in different ways I can answer questions about the data using my representation 	Show children the Zoo map, showing different numbers of animals in each enclosure. Explain that you want to remember how many of each animal there are so that you could tell someone at home. You are not allowed to take the Zoo map with you. Encourage the children to find easy ways of showing which animals there are more, or fewer of. Ask the children to try representing the information in a different way.
Less	 Y2: To begin to learn to touch type I can find keys on a computer keyboard I can identify the home keys on a computer I understand how to type capital letters using 'shift' 	People who type really quickly learn something called 'touch typing', which means that they know how to find the letters without looking at the keys. The best way to learn is to practise a little bit every day so that you can become quicker and start to recognise where the letters are. Children to work at their own pace to get as far as they can working through the TypingClub lessons.
Lesson 2	 Y1: To use technology to represent data in different ways I can navigate a computer using a mouse I can type using a keyboard I understand that data can be shown in different ways I can represent data in different ways 	Ask children to remind you of how they represented the number of animals at the zoo in the previous lesson. explain that today, they will show this information in interesting ways, using the computer. They create a pictogram.
Le	 Y2: To understand how to use a word processor I can type a sentence into a word processor I can select all the text and make it bold or in italics I can explain how to make other changes using a word processor 	Pupils are going to type up the first page of the book that they have chosen. Before they start, ask if the children know how to type a capital letter. Discourage them from using the Caps Lock key, instead explain that it is easier to hold down the Shift key and tap the letter. Introduce some other keyboard shortcuts.
13	 Y1: To collect and record data I can identify different minibeasts I can record the number of different minibeasts I see I can represent this data digitally 	Explain to children that they're going to go on a hunt for minibeasts. tell children that you want them to find out which minibeast is most commonly found on the school grounds. Explain that they're going to select the five minibeasts they found the most of and represent the data in different ways.
Lesson	 Y2: To understand how to add images to a text document I can use keyboard shortcuts to alter text I know how to search for and find an appropriate image I can import and alter an image in a document 	Share the newspaper website link of either 'First news live' or 'CBBC Newsround' with the children. Discuss and demonstrate the aspects of the website which allow us to move around or 'navigate' the site, such as the forward and back buttons. Show how to select the links and move between sections of the site to discover different information. Ask children to use images and text editing to create a newspaper article about 'The Gingerbread Man', reminding them that they should show off all of their skills learned in the topic so far rather than spending too much time finding an image or typing the story.
on 4	 Y1: To sort data I can identify and categorise different animals I can click and drag objects I can identify questions to sort data in the most efficient way I can create a branching database 	Children to design a Science game They should create questions to sort the animals then practise their mouse skills to click and drag the correct animals into either the yes or no boxes. They can test their game by clicking 'play'.
Lesson	 Y2: To create a poetry book using sources from the internet I understand how to use text styles to create headings and subtitles I can copy and paste text into a document I understand the importance of crediting source materials 	Explain to the class that they are going to use copy and paste to create a poetry book of poems from the internet. Give the children some time to find some of their favourite poems they have come across. They will then copy and paste a poem they like, add a relevant picture and alter the formatting, text and layout to make it look more attractive. They can then repeat this process for a second and third poem, but they should only copy one poem per page. Remind children that they must include the name of the person who wrote the poem and which website they copied it from.
n 5	 Y1: To design an invention to gather data I understand that computers understand different types of input I can design a computerised invention to gather data I can explain how my invention works 	Explain to pupils that they are going to be inventors! They can be very creative with their design (i.e. it doesn't have to be something that they could actually make); however, it does have to behave like a computer. Once they have come up with their idea, they go to 'Sketchpad' to draw their inventions, adding labels and information to explain how it works.
Lesson	 Y2: To understand what happens to information posted online I can explain what online information is I know what is safe to share online I know who to talk to if something is shared that makes me feel sad or worried 	Briefly recap the story of 'The Three Little Pigs'. Explain that the pigs and their mum shared some information online during the building of their new homes and together we are going to think about whether we think it was safe to share that information online. Give each pair of pupils a copy of the <i>Activity: Is it safe to share? to</i> complete.

Y1: To know what the internet is and how to use it safely I understand what the internet is a being treated unkindly online Read the class a story called 'Smartie the Penguin'. Explain to the children that they will create their own 'Online I know who to go to when I need help and advice with online matters Y2: To know how to keep things safe and private online Read the class a story called 'Smartie the Penguin'. Explain to the children that they will create their own 'Online I know who to go to when I need help and advice with online matters Y2: To know how to keep things safe and private online I know what information is private and can explain how I can keep this private Discuss with the children how we keep things safe. Hand out the Activity: Private and personal information. Ask children to sort the information out into 'private' and 'personal'. VI: To understand different feelings when using the internet I can recognise advice to stay happy and safe online I understand why I ake permission The children will look through three online scenarios involving Bella the Dog and answer questions about what she should be done before sharing information online I understand how to treat others, both online and in-person I can recognise how actions on the internet can affect others I can understand the ways to use the top tips to be in control of my actions when on the internet Share Michael's and Joel's stories with the class. Discuss the stories and answer the questions regarding sharing personal information. YI: To understand the ways to use the top tips to be in control
 I know how to offer advice to anyone that is being treated unkindly online I know who to ge to when I need help and advice with online matters Y2: To know how to keep things safe and private online I know who to ge to when I need help and advice with online matters Y2: To know how to to keep things safe and private online I know what passwords are for I can explain how to create a strong password I know what information is private and can explain how I can keep this private Y1: To understand different feelings when using the internet I can recall what the internet is I can recall what the internet is I can recall what should be done before sharing information online I understand why I ask permission I can explain who I need to ask permission from before sharing information online I can explain people's feelings if I share things online without their permission Y1: To understand how to treat others, both online and in-person I can recognise how actions on the internet safely I can recognise how actions on the internet safely I can recognise how actions on the internet safely I can recognise how actions on the internet safely I can recognise how actions on the internet safely I can recognise how actions on the internet safely I can recognise how actions on the internet safely I can understand the ways to use the top tips to be in control of my actions when on the internet Can understand the ways to use the top tips to be in control of my actions when on the internet Can understand the ways to use the top tips to be in control of my actions when on the internet Can understand the ways to use the top tips to be in control of my actions when on the internet Can understand the ways to use the top tips to be in control of my actions whe
 Y2: To know how to keep things safe and private online I know what passwords are for I know what passwords are for I can explain how to create a strong password I know what information is private and can explain how I can keep this private Discuss with the children how we keep things safe. Hand out the Activity: Private and personal information. Ask children to sort the information out into 'private' and 'personal'. To understand different feelings when using the internet is I can recall what the internet is I can recodi what the internet is I can recodi what the dadvice on ways to stay happy and safe online I can explain what should be done before sharing information online I can explain who I need to ask permission I can explain people's feelings if I share things online without their permission I can recall the top tips for using the internet safely I can recall the top tips for using the internet safely I can recall the top tips for using the internet safely I can recall the top tips for using the internet can affect others I can understand the ways to use the top tips to be in control of my actions Read the children the story on the link: 'Digiduck's big decision'. Children to roleplay a conversation between Digiduck and Wise_Owl about being a kind and positive internet user.
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 I can recall what the internet is I can recognise advice to stay happy and safe online I can provide advice on ways to stay happy and safe online I can provide advice on ways to stay happy and safe online Y2: To explain what should be done before sharing information online I understand why I ask permission I can explain who I need to ask permission from before sharing content online I can explain people's feelings if I share things online without their permission I can recall the top tips for using the internet safely I can recall the top tips for using the internet safely I can recall the top tips for using the internet can affect others I can understand the ways to use the top tips to be in control of my actions when on the internet
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• I can understand the ways to use the top tips to be in control of my actions when on the internet
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🖇 • I can explain why I have the right to say no from family members or classwork on the school website. Children may also be asked to share information and try
• I know who to ask for help if I am unsure or feel pressure to do something new things online. Friends might try and persuade them to try out new games that may not be suitable age rating,
• I can explain why I need to ask a trusted adult before clicking 'accept' people may try and ask them for private information. Tell the children that just like when you say no offline, you
have the right to say no online as well. This means denying permission of approval. We can choose whether or not
content of us is shared online.
Y1: To understand the importance of being careful about what we post and share online
Children will use the Activity: Digital Josephine to write about all the ways they use the interfet, including which
• I can understand the meaning of 'sharing' and 'posting' information online websites they visit and the types of information they may share or post.
• I can understand what 'digital footprint' means
Set true or not
• I can explain the difference between things that are 'imaginary' 'made up' Explain to the children that something is real if it exists or existed and we can see, jeel or touch it, or it is known
or 'make believe' and those that are true or real knowledge. Explain to the children that not everything they read or see online is true. Share three strategies pupils
• I can explain why some information I find online may not be true can adopt to check to see if something is true online.
• I can explain why people may post things online that are not true