



LAW AND ORDER

To know how to use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs (NC)

To know how to design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts (NC)

COMPOSITES	COMPONENTS
To know how to create a 3D world within Kodu	To know that 2D means two-dimensional, i.e. something that has two dimensions – length and width
	To know that 3D means three-dimensional, i.e. something that has three dimensions – width, height and depth (length)
	To know that Kodu Game Lab is a video game development platform developed by Microsoft to introduce young children to the basic concepts of computer programming
	To know that Kodu is a visual programming language (VPL) which teaches coding via simple visual elements
	To know that in Kodu you connect tiles containing underlying code to build 3D worlds and games without the need to master complex syntax and typing abilities
	To know how to use a range of tools within to create a 3D world within Kodu
To know how to identify selection	To know that selection allows you to choose whether to run a section of code
	To know that selection allow you to choose to run code only IF / WHEN a certain condition is met To know selection will most like include one of the words IF / THEN / WHEN / ELSE







LAW AND ORDER (cont.)	
COMPOSITES	COMPONENTS
To understand and use selection in	To know that repeat within an algorithm means that something happens or is done again
programming (within Kodu)	To know that when something occurs again in an algorithm / program it is called a repeat / loop
	To know that a flowchart is a diagram of a sequence of functions / actions
	To know that algorithms can be represented as flowcharts
	To know how repetition is used in algorithms practically (Zorba's Dance)
	To know that repetition within instructions / algorithms can make them clearer and more concise
	To know how to use selection to choose whether to run a section of code (in Kodu)
	To know how to use selection allow you to choose to run code only IF / WHEN a certain condition
	is met (in Kodu)







PICTURE OUR PLANET

To select, use and combine a variety of software (including internet services) on a range of digital devices to design and create a range of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information (NC) To understand computer networks including the internet; how they can provide multiple services, such as the world wide web; and the opportunities they offer for communication and collaboration (NC)

To know how to use technology safely, respectfully and responsibly; recognise acceptable/ unacceptable behaviour; identify a range of ways to report concerns about content and contact (NC)

report concerns about content and contact (NC)	
COMPOSITES	COMPONENTS
To understand how to edit photos using	To know that photo editing is the process or art of enhancing photos to make them look more
advanced tools and filters	visually appealing
	To know that edits to photos are often called adjustments
	To know that photos can be edited in a variety of ways e.g. to adjust contrast and brightness,
	shadows and highlights, correct colours, crop or resize, retouch or restore images and for
	advertisement and marketing
	To know that photos are mainly edited electronically using photo editing software
	To know that photo editing software contains a variety of tools, blending modes, adjustments, and
	filters that can help to create a different atmosphere or effect in a photo
	To know and use the tools, blending modes, adjustments, and filters within photo editing software





PICTURE OUR PLANET (cont.)	
COMPOSITES	COMPONENTS
To understand email and be able to draft and send them	To know that the internet is a network, or system, that connects millions of computers worldwide To know that electronic mail, or 'email,' uses electronic devices to deliver messages To know that email uses the internet to send these messages To know the advantages of using emails e.g. efficiency, not using paper etc. To know how to type using a keyboard / touch screen To know that emails have a specific format / address and contain the @ symbol followed by a domain / organisation name To know that you can save emails in draft form To know that Cc means carbon copy and Bcc means blind carbon copy To know that carbon copy is produced when a sheet of carbon paper is placed between two sheets of writing paper – this was used before photocopying and email but is still used today To know and be able to use the functions of Send, Reply, Forward, To, Cc and Bcc







A WORLD OF DIFFERENCE / CRY FREEDOM

To know how to select, use and combine a variety of software (including internet services) on a range of digital devices to design and create a range of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information (NC)

To know how to use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content (NC)

content (NC)	
COMPOSITES	COMPONENTS
To know how to create a quiz using a	To know how to generate questions
presentation program	To know that research is the process of finding facts / information in an organised manner
	To know that research can be completed using the internet
	To know how what a search engine is
	To know how to navigate to and use a search engine or given websites and find information
	To know how to pick out key information from a text
	To know that evaluate means to study carefully and judge
	To know that a presentation is a way of showing someone information
	To know what an on-screen presentation looks like
	To know that a slide is one page of a presentation
	To know how to navigate the internet or a given website in order to read and extract relevant
	information to use in a presentation
	To know how to type using a keyboard / touch screen
	To know to add text to presentation software
	To know how to locate and save an image
	To know how to import an image to presentation software
	To know how to play a slideshow on presentation software





A WORLD OF DIFFERENCE / CRY FREEDOM (cont.)	
COMPOSITES	COMPONENTS
	To know that a transition within presentation software is the way one slide changes into the next To know that an animation within presentation software is the way an element on a slide come to life To know how to change, format, add and edit a presentation's style, background, font, images, sounds To know how to add animations and transitions to a presentation







LIGHTNING SPEED

To understand computer networks including the internet; how they can provide multiple services, such as the world wide web; and the opportunities they offer for communication and collaboration (NC)

opportunities they offer for communication and collaboration (NC)	
COMPOSITES	COMPONENTS
To understand that the computers in a school	To know that local means the nearby area
are connected together in a network	To know that an area is a space
	To know that a network is a group of connected things or people
	To know that a Local Area Network (LAN) is a network of connected computers / devices in a
	specific area (in this case, a school)
	To know that devices can connect wirelessly to a network (without wires)
	To know that a server is a computer that is always left switched on that serves the network, a bit
	like waiter serving customers in a restaurant
	To know that a server serves the network by running programs (Scratch, Kodu, Internet browsers)
	which people wish to use; storing files created by users; allowing access to printing; allowing access
	to the Internet
To understand why computers are networked	To know, in a network, that all the computers / devices are connected to a switch and a switch
	simply helps them connect together
	To know that devices on a network are called workstations
	To know that computer networks can overcome geographic barriers and enable the sharing of
	information
	To know that computer networks enable the usage and sharing of any number of applications and
	services, including emails, video, audio, and plenty of other types of data, over the internet







LIGHTNING SPEED (cont.)	
COMPOSITES	COMPONENTS
To understand the difference between the internet and the World Wide Web (WWW)	To know that the internet is a massive network of connected computers and other devices across the globe To know that the internet is the largest network that exists
	To know that the internet is the largest network that exists To know that the world wide web ('www' or 'web' for short) is a collection of webpages found on the internet
	To know that a web browser uses the internet to access the world wide web.
	To know that Tim Berners-Lee invented the World Wide Web (WWW)
To understand that servers on the internet are located across the planet	To know that a server is a computer that is always left switched on that serves the network To know there are servers on the Internet in different parts of the world, just like there was a server on our school network
To understand how email is sent across the	To know that electronic mail, or 'email,' uses electronic devices to deliver messages
internet	To know that email uses the internet to send these messages
	To know the advantages of using emails e.g. efficiency, not using paper etc.
	To know the process an email goes through from composition to being received by the sender:
	type the email; press send from your email address with the domain name, e.g. @gmail.com,
	transfers to email domain name service provider to find the domain of the receiver; then the email
	is sent to the receiver once verified, email received by recipient







SAFE ZONE - YEAR 4 LESSON 1

EDUCATION FOR A CONNECTED WORLD OBJECTIVES

ONLINE RELATIONSHIPS

I can describe strategies for safe and fun experiences in a range of online social environments (e.g. livestreaming, gaming platforms).

I can give examples of how to be respectful to others online and describe how to recognise healthy and unhealthy online behaviours.

I can explain how content shared online may feel unimportant to one person but may be important to other people's thoughts feelings and beliefs.

ONLINE BULLYING

I can recognise when someone is upset, hurt or angry online.

I can describe ways people can be bullied through a range of media (e.g. image, video, text, chat).

I can explain why people need to think carefully about how content they post might affect others, their feelings and how it may affect how others feel about them (their reputation).

COMPOSITES	COMPONENTS
I can describe strategies for safe and fun	To know why it is beneficial to spend time relaxing
experiences in a range of online social	To know how to use spare time productively to help relax and enjoy doing something positive, and
environments (e.g. livestreaming, gaming	give examples
platforms).	To know what it means to be safe online
	To know what you can do online for fun and give examples of these e.g. gaming
	To know that livestreaming is broadcasting to an audience in 'real time' online
	To know that we should take precautions to stay safe when communicating online, just as we
	would offline







SAFE ZONE - YEAR 4 LESSON 1 (cont.)	
COMPOSITES	COMPONENTS
I can give examples of how to be respectful to others online and describe how to recognise healthy and unhealthy online behaviours.	To know that respect means that you have due regard for the feelings, wishes, and rights of others To know that considerate means to be thoughtful towards the rights and feelings of others To know that kindness is the quality of being friendly, generous, and considerate To know that treating people with kindness, consideration and respect is likely to make them feel
	good To know how it is possible to be respectful online To know that healthy choices make us, or others, feel good and unhealthy choices are likely to make us feel bad
	To know, and give examples of, healthy and unhealthy online behaviours
I can explain how content shared online may	To know that not everyone thinks the same
feel unimportant to one person but may be	To know that people have different thoughts, feelings and beliefs and we must respect these
important to other people's thoughts feelings	To know that people have different likes and dislikes
and beliefs.	To know that we must be aware that content shared online might be seen in a different light by others e.g. something they find funny might not be taken in the same way by someone else
I can recognise when someone is upset, hurt	To know if technology has ever made you feel anxious, angry, sad, etc
or angry online.	To know what it might look like when someone is upset, hurt or angry online
	To know that rage quitting is when a player in sports or video gaming is too angry to continue
	playing a game and usually leaves before the end of the game or match
	To know that bullying behaviour can make someone feel upset, hurt or angry online and offline





SAFE ZONE - YEAR 4 LESSON 1 (cont.)	
COMPOSITES	COMPONENTS
I can describe ways people can be bullied	To know the difference between accidental and intentional behaviour
through a range of media (e.g. image, video,	To know where bullying can happen online e.g. online gaming chat, WhatsApp, social media, etc.
text, chat).	To understand how bullying can make someone feel e.g. scared, lonely, upset, anxious, hated To know some of the signs that someone might be being bullied e.g. become withdrawn, quiet, sad To know that someone experiencing bullying is not to blame and they must not feel that way To know how someone can / would get help about being bullied online or offline To know that you should always try your best to help someone if you feel they are being bullied To know that it is the right thing to do to report bullying to a trusted adult To know that if you are upset or worried about something online you should talk to a trusted adult To know and name different people who you could ask for help and support
I can explain why people need to think	To know that children do not have to fix problems on their own To know that a post is a message, such as text or photos, published online by a user while referring
carefully about how content they post might	to a message board, comment section, or social network
affect others, their feelings and how it may	To know that you can post a variety of content online
affect how others feel about them (their	To know that what you post online will be seen by others
reputation).	To know that people may make judgements about you based on what you post online
	To know that we must think about others before posting / saying anything online







SAFE ZONE - YEAR 4 LESSON 2

EDUCATION FOR A CONNECTED WORLD OBJECTIVES

HEALTH, WELL-BEING AND LIFESTYLE

I can explain how using technology can be a distraction from other things, in both a positive and negative way.

I can identify times or situations when someone may need to limit the amount of time they use technology e.g. I can suggest strategies to help with limiting this time.

COMPOSITES	COMPONENTS
I can explain how using technology can be a	To know that technology can be both a positive and negative distraction
distraction from other things, in both a	To know that technology can sometimes take all your concentration
positive and negative way.	To know some examples of where it is easy to lose track of time when engaged with technology
	To know some examples of using technology positively
	To know some examples of using technology negatively
I can identify times or situations when	To know that the recommended screen time for children aged 5 to 16 is two hours
someone may need to limit the amount of	To know how to identify how much time you spend using technology
time they use technology e.g. I can suggest strategies to help with limiting this time.	To know that many devices have screentime trackers that can help guide us on how much time we spend using devices
	To know the long-term effects, both physically and mentally, of spending too much time using technology
	To recognise when someone might need to limit their time spent using technology







SAFE ZONE - YEAR 4 LESSON 3

EDUCATION FOR A CONNECTED WORLD OBJECTIVES

ONLINE REPUTATION

I can describe how to find out information about others by searching online.

I can explain ways that some of the information about anyone online could have been created, copied or shared by others.

MANAGING ONLINE INFORMATION

I can analyse information to make a judgement about probable accuracy and I understand why it is important to make my own decisions regarding content and that my decisions are respected by others.

I can describe how to search for information within a wide group of technologies and make a judgement about the probable accuracy (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 do not make those opinions or beliefs true.

I can explain that technology can be designed to act like or impersonate living things (e.g. bots) and describe what the benefits and the risks might be.

I can explain what is meant by fake news e.g. why some people will create stories or alter photographs and put them online to pretend something is true when it isn't.

COMPOSITES	COMPONENTS
I can describe how to find out information	To know how to navigate to and use a search engine or given websites and find information
about others by searching online.	To know that you can search for information about yourself online
	To know that you can search for information about others online
	To know how to explain to others how to search online safely
I can explain ways that some of the	To know that, when searching online, most of the content we find belongs to someone else
information about anyone online could have	To know that anyone can post online and not everything created is necessarily true or accurate
been created, copied or shared by others.	





SAFE ZONE - YEAR 4 LESSON 3 (cont.)	
COMPOSITES	COMPONENTS
I can analyse information to make a judgement about probable accuracy and I understand why it is important to make my own decisions regarding content and that my decisions are respected by others.	To know how to analyse the validity of an online source (Knowledge CHASERS) To know that it important to form your own opinions and not just accept what you see as true
I can describe how to search for information within a wide group of technologies and make a judgement about the probable accuracy (e.g. social media, image sites, video sites).	To know that, especially on social media, people can present information as facts when they may not necessarily be true To know how to use a range of search technologies to find information To know how to corroborate the accuracy of information by comparing sources
I can explain why lots of people sharing the same opinions or beliefs online do not make those opinions or beliefs true.	To know that facts are statements that we know to be true To know that opinions are your beliefs about something and might not be true for everyone To know that a belief is a firm thought that something is true To know that facts, opinions and beliefs are all on the internet and it is important to know the difference between the three To know that opinions, facts, and beliefs can be seen in many forms online e.g. webpages, blogs, videos, memes, posts, news stories etc To know that things you find online might not be true To know that not everyone has to agree with your opinion and vice versa To know that some people might disagree over opinions To know that just because lots of people are saying a certain thing, it doesn't necessarily mean it's true
I can explain that technology can be designed to act like or impersonate living things (e.g. bots) and describe what the benefits and the risks might be.	To know that fake news can be spread by hackers / bots To know that we must be careful when dealing with technology so that we are not tricked by fake accounts / bots





SAFE ZONE - YEAR 4 LESSON 3 (cont.)	
COMPOSITES	COMPONENTS
I can explain what is meant by fake news e.g.	To know that fake news is news or stories on the internet that are not true
why some people will create stories or alter	To know that fake news is often created to spread strong and often prejudice opinions
photographs and put them online to pretend	To know that people may manipulate photos for a number of reasons e.g. parody, to spread false
something is true when it isn't.	information







SAFE ZONE - YEAR 4 LESSON 4

EDUCATION FOR A CONNECTED WORLD OBJECTIVES

SELF-IMAGE AND IDENTITY

I can explain how my online identity can be different to my offline identity.

I can describe positive ways for someone to interact with others online and understand how this will positively impact on how others perceive them.

I can explain that others online can pretend to be someone else, including my friends, and can suggest reasons why they might do this.

COMPOSITES	COMPONENTS
I can explain how my online identity can be	To know that it is important to not give away too much of your identity online in order to stay safe
different to my offline identity.	To know that other people's identities online can be different to their identities in real-life
	I can describe ways in which people might make themselves look different online e.g. avatars, fake pictures etc.
	To know that an avatar is useful to show people aspects of your personality, but not give away too
	much information about yourself
I can describe positive ways for someone to	To know that honesty is when you speak the truth and act truthfully
interact with others online and understand	To know that it is important to be honest both online and offline
how this will positively impact on how others	To know how to positively interact with others both online and offline
perceive them.	To know that people will perceive you differently depending on how you behave towards them
	To know how to make good choices when interacting with others both online and offline
I can explain that others online can pretend to	To know that impersonation means to pretend to be another person
be someone else, including my friends, and	To know that someone might want to change their identity online for many reasons – some good,
can suggest reasons why they might do this.	some bad e.g. safety / discretion, scamming etc.
	To know that it is difficult to know someone's true identity when communicating with them online





SAFE ZONE - YEAR 4 LESSON 5

EDUCATION FOR A CONNECTED WORLD OBJECTIVES

COPYRIGHT 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 of content which I must not use without permission from the owner, e.g. videos, music, images.

COMPOSITES	COMPONENTS
When searching on the internet for content to	To know that reuse of digital content is when someone takes and uses a part of, or a whole piece
use, I can explain why I need to consider who	of digital content in their own work
owns it and whether I have the right to reuse	To know that it is not okay to copy someone's work / content and say it is your own
it.	To know that when searching online, most of the content we find belongs to someone else
	To know that copying someone else's work from the internet without permission can cause problems
	To know what those problems might be e.g. copyright infringement, upset, taking someone's hard work, etc
	To know whether you can use someone's content e.g. Creative Commons
I can give some simple examples of content	To know that there are different types of content / images available on the internet which may
which I must not use without permission from	have different copyright licenses i.e. some are free to use; some have copyright licences available
the owner, e.g. videos, music, images.	to purchase so you can use them; some are free to use for certain things like education or news
	reporting, but it is important to check; some you are unable to copy at all
	To know how to find out about these licenses (Google Image search tools)
	To know some examples of content you cannot reuse without permission







SAFE ZONE - YEAR 4 LESSON 6

EDUCATION FOR A CONNECTED WORLD OBJECTIVES

PRIVACY AND SECURITY

I can describe strategies for keeping personal information private, depending on context.

I can explain that internet use is never fully private and is monitored, e.g. adult supervision.

I can describe how some online services may seek consent to store information about me; I know how to respond appropriately and who I can ask if I am not sure.

I know what the digital age of consent is and the impact this has on online services asking for consent.

COMPOSITES	COMPONENTS
I can describe strategies for keeping personal	To know that it is important to have support in place to ensure personal information is not given
information private, depending on context.	away e.g. parental controls, talking about what to share, etc.
	To know that private means only for one person or group and not for everyone
	To know what information should be kept private and what is okay to share
	To know to speak to a trusted adult before posting anything, especially if you are unsure whether
	you should post it
	To know that there are times when things should not be kept private e.g. if someone is unsafe
I can explain that internet use is never fully	To know that the internet is never fully private and can be monitored by others for our safety
private and is monitored, e.g. adult	To know that passwords should be kept private to prevent anyone accessing your information /
supervision.	content and that only trusted adults should be able to share these e.g. school teachers knowing
	school account passwords, parents knowing passwords at home to keep you safe
I can describe how some online services may	To know that to give consent means to give permission
seek consent to store information about me; I	To know that personal information can be used by others for their gain e.g. hackers, advertisers
know how to respond appropriately and who I	To know that we sometimes give devices permission to share personal information with others
can ask if I am not sure.	when we accept terms and conditions
	To know that these devices can collect our information
	To know to speak to a trusted adult if you're unsure about consenting to anything online





SAFE ZONE - YEAR 4 LESSON 6 (cont.)	
COMPOSITES	COMPONENTS
I know what the digital age of consent is and	To know that the digital age of consent is 13
the impact this has on online services asking	To know that you must be at least 13 for a company to be able to ask to store your information,
for consent.	and if you are under this age, your parents / carers must consent for you

