Curriculum maps with Christian and school ethos links

Subject: Computer Science   Year: 7

Topics and links	Autumn Term		Spring		Summer	
	AT1	**AT2**	**SP1**	**SP2**	**SU1**	**SU2**
	Login and passwords, presentations - Loch Ness	Spreadsheet pocket money/Christmas wish list	e-safety and misuse	Website creation and bogus websites	Programming	Magazine covers
Links with Values and Christian ethos and spiritual development opportunities	St Columba – founder of Christianity in the UK. Story of the encounter with the loch Ness monster!	Do you really "need" everything you really need on the list? Charitable donations "Do not neglect to do good and to share what you have, for such sacrifices are pleasing to God." - Hebrews 13:16	Ethical decisions, appropriate behaviour towards others. Do we think before we speak? "For by your words you will be justified, and by your words you will be condemned." – Matthew 12:37	Is your website appropriately targeted? Judge not, and you will not be judged; condemn not, and you will not be condemned; forgive, and you will be forgiven;" - Luke 6:37	Have courage in learning a new skill – "Have I not commanded you? Be strong and courageous. Do not be frightened, and do not be dismayed, for the Lord your God is with you wherever you go." - Joshua 1: 9	Respect and kindness – portraying images in a positive manner
Links with Sexey's Seven ethos	**Resilience**	**Kindness** and **Empathy**	**Honesty**	**Honesty and Resilience**	**Courage**	**Honesty**

Curriculum maps with Christian and school ethos links:

Subject: Computer Science   Year: 8

Topics and links	Autumn Term		Spring		Summer	
	AT1	**AT2**	**SP1**	**SP2**	**SU1**	**SU2**
	How is data used? Fraud and ID cards	e-safety – cyberbullying, grooming, abuse, and keeping safe and healthy	Hardware and software and networking	Spreadsheet modelling – financial models	Webpage creation	Python programming concepts
Links with Values and Christian ethos and spiritual development opportunities	Honesty and sharing. Equality, accepting people for who they are, movement and migration, what does the bible say about how people should treat each other? Are there parallels with people movement and suffering? Does it still exist and what can be done?	Respect others, treating with kindness, justice. Respectful communication. "Whoever belittles his neighbour lacks sense, but a man of understanding remains silent." – Proverbs 11:12	Who were the people who invented these technologies? Did they do this for the good of others? Are we thankful for these technologies or do we take them for granted?	To what extent do you agree with the statement that "Use of technology should be for good"? "For I know the plans I have for you, declares the Lord, plans for welfare and not for evil, to give you a future and a hope." – Jeremiah 29:11	Christian values of creativity and service to others. Who are we aiming our media at? Why is it important to be truthful, sensible and kind in what we create? Do people really think about what they say and do online? "Let there be no filthiness nor foolish talk nor crude joking, which are out of place, but instead let there be thanksgiving." - Ephesians 5:4	Helping others – problem solving and teamwork.
Links with Sexey's Seven ethos	**Respect**	**Respect** and **Forgiveness**:	**Respect, kindness**	**Honesty**	**Courage**	**Resilience**

Curriculum maps with Christian and school ethos links: Example

Subject: Computer Science   Year: 9

Topics and links	Autumn Term		Spring		Summer	
	AT1	**AT2**	**SP1**	**SP2**	**SU1**	**SU2**
	Databases	e-safety, digital footprint, extremism, self-image, radicalisation, treating others with respect	Spreadsheet modelling and IF statement quizzes	Programming with Python – creating apps for others and cryptography – a little history on WW2 code breaking – Alan Turing and being forced into therapy for being a homosexual	App generation and AI	Photoshop art
Links with Values and Christian ethos and spiritual development opportunities	Is it right for data to be harvested? Why might it be used for good or evil? Where do we draw the line? Sharing, Wisdom (data – knowledge – wisdom)	How do we treat each other online and in the real world? Are we "good" "Keep your conduct among the Gentiles honourable, so that when they speak against you as evildoers, they may see your good deeds and glorify God on the day of visitation". – Peter 2:12	Truthfulness and creativity. How do businesses make money? How can these technologies be used to predict the future? What do you think of "get rich quick" schemes? "Wealth gained hastily will dwindle, but whoever gathers little by little will increase it." – Proverbs 13:11	How do we treat others? Does our justice system work? "Do nothing from rivalry or conceit, but in humility count others more significant than yourselves. Let each of you look not only to his own interests, but also to the interests of others." – Philippians 2:2-4	How can apps be used for good? How have they changed people's lives? Christian values of service to others, peace and endurance	Do we believe everything we see? Is it right that images are allowed to be manipulated for "good"? Where do we draw a line? The integrity of the upright guides them, but the crookedness of the treacherous destroys them." Proverbs 11:3
Links with Sexey's Seven ethos	**Resilience** and **courage**	**Respect, empathy, Forgiveness, kindness**	**Resilience**	**Empathy, respect and forgiveness**	**Kindness**	**Honesty, kindness**

Curriculum maps with Christian and school ethos links:

Subject: Computer Science   Year: 10

Topics and links	Autumn Term		Spring		Summer	
	AT1	**AT2**	**SP1**	**SP2**	**SU1**	**SU2**
	1.1 Systems Architecture 2.1 Algorithms 2.2 Programming techniques	1.1 Systems Architecture 1.2 Memory 2.1 Algorithms 2.2 Programming techniques	1.1 Systems Architecture 1.3 Storage 2.2 Programming techniques 2.4 Computational logic	2.1 Algorithms 2.2 Programming techniques 2.3 Producing robust programs 2.6 data representation	1.7 Memory, peripheral and user management 2.2 Programming techniques 2.3 Producing robust programs	1.7 Memory, peripheral and user management 2.1 Algorithms 2.3 Producing robust programs
Links with Values and Christian ethos and spiritual development opportunities	How important is it to break down and plan before you tackle a problem? What are the benefits of this? "The plans of the diligent lead surely to abundance, but everyone who is hasty comes only to poverty" - Proverbs 21:5	When designing systems there will be many obstacles to tackle, how do we deal with these problems? How do we seek harmony in making things work? "We do and will fail. When we fail, we confess our sins and ask God to fill us with the Spirit, renew our hearts, and enable us to persevere"- Romans 7:19; James 3:2; 1 John 1:8.	How do we take the "right path"? What can we ask ourselves? Who can we ask? Who influences our outcomes? "Communication of truth" - John 16:13 Observing outcomes	How does religion help to solve problems? Christianity seeking unification, respect for opinions and peaceful resolution to conflict	The importance of approaching problems with orderliness. "But all things should be done decently and in order" - Corinthians 14:40	How do we protect our own and other's integrity? Who should we allow to access information? Why is it important to protect sensitive information? "And let us not grow weary of doing good, for in due season we will reap, if we do not give up." – Galatians 6:9
Links with Sexey's Seven ethos	**Courage, resilience, honesty**	**Courage, resilience**	**Courage, resilience**	**Respect, courage, empathy, kindness**	**Courage, resilience**	**Kindness, respect**

Curriculum maps with Christian and school ethos links:

Subject: Computer Science   Year: 11

Topics and links	Autumn Term		Spring		Summer	
	AT1	**AT2**	**SP1**	**SP2**	**SU1**	**SU2**
	1.8 Ethical, legal, cultural and environmental concerns 2.5 translators and facilities of languages	1.6 System security	2.6 data representation	1.4 Wired and wireless networks 1.5 Network topologies, protocols and layers	Revision	N/A
Links with Values and Christian ethos and spiritual development opportunities	Respecting personal choice, how you treat others and the environment "The Lord God took the man and put him in the garden of Eden to work it and keep it." – Genesis 2:15	What is "ethical hacking"? Why do people decide to corrupt systems? Are they showing Christian values? "Do not lie or bare false witness" – Exodus 20:16	How does God "show himself"? What symbols of Christianity can you think of? Why are these significant? How are these images and symbols represented in different cultures and languages?	Do you follow rules? Why is it important to have rules? Why do systems have to have rules? "And as you wish that others would do to you, do so to them." – Luke 6:31	Exams are one of the most stressful times for a young person. Have these words in mind when going on your revision journey: "Trust in the Lord with all your heart, and do not lean on your own understanding. In all your ways acknowledge him, and he will make straight your paths." - Proverbs 3: 5-6	
Links with Sexey's Seven ethos	**Kindness, respect, empathy, forgiveness**	**Respect, forgiveness, honesty**	**Empathy, respect**	**Respect, kindness, forgiveness**	**Courage**	