

-HALE TERM 1:		Within ontional unit nathway dependent
		within optional and, pathway dependant.
All Pathways		
<u>All adiways</u>		
Unit 2 – Global Information		
		Within optional unit, pathway dependant.
KQ1 – Which individuals and organisations hold		
information?		
(a) Categories of holders	$\boldsymbol{\rho}$	
-Categories - Individual citizens, businesses, educational		
institutions, governments, charities, healthcare services and		Discussion of the purpose/characteristics of
community organisations.		different classifications of data.
-The information held, in the context of each category.	RXX	
(b) Location		
 -Locations - Developing country, developed country, urban, 		Links to business studies – how organisations
rural, home, workplace.	\mathbf{a}	use data.
-Access to information and access issues, within each	Un on	Links to computer science – how data is
location.	O	stored/cyber security.
(c) The global divide		
-Comparison of technologies available and access issues		
across the global divide - between developed and		
developing countries.		
RQ2 - How is information stored?		
<u>(d) Types</u> -Paner-based - Forms, handwritten notes, mans, telenhone		
directories		
-Ontical media - CD_DVD_Blu-ray		
-Magnetic media - Magnetic hard drives, tapes,		
-Solid state media - SSD hard drives, memory cards.		
(b) Characteristics/Purpose		
-Of each type of storage media		
(c) Advantages and disadvantages		
-Of each type of storage media, in relation to its		
characteristics/purpose.		
KQ3 - How can information be accessed?		
<u>(a) Device Types</u>		
-Handheld device - small tablet, smart phone, wearable		
device, eBook reader.		
-Portable devices - laptop, large tablet.		
-Fixed devices - desktop computer, smart TV, games		
Consoles.		
storage devices		
(b) Characteristics/Purpose/Uses		
-Of each type of device		
(c) Advantages and disadvantages		
-Of each type of device, in relation to its		
characteristics/purpose.		
KQ4 - What is the internet and how does it allow us to		
access data?		
(a) The Internet		
-A network of interconnected networks, spanning the world		
-Internet connections		
-Characteristics		
(b) Connection types		
-Types - copper-cable, optical-fibre, satellite, microwave,		
mobile data networks.		
(c) characteristics		



-Of each network connection type.	
-Characteristics - speed, range (distance), storage capacity.	
KQ5 - How is the WWW used to share information?	
(a) WWW Technologies	
-Internet - Public, open access. Anyone can access.	
-Intranet - Private, closed access. Internal to an organisation.	
-Extranet - Private nart shared access Organisation	
control/grant external access	
(b) Durpage (characteristics	
(b) Fulpose/characteristics	
-Or each network type.	
-Comparison of a networks suitability for given uses	
-Issues related to access to the network	
KQ6 - How can information be presented on the WWW?	
(a) Formats	
-Webpages - Static and dynamic	
-Blogs	
-Podcasts	
-Streamed audio and video - internet radio, catch-up TV	
-Social media channels - Twitter, LinkedIn, discussion boards	
-Document stores - unload and download	
-RSS feeds	
(h) Purpose	
<u>(b) Fulpose</u>	
-Or each format	
-How well each format can meet the needs of different	
holders of information, in a range of situations.	
KQ7 – What advantages does using the internet have to	
different holders of information?	
<u>(a) Individuals</u>	
-Speed of personal communication, easy access to large	
amounts of information for research, access to internet	
banking 24/7 etc.	
(b) Organisations	
-Share large amounts of information quickly between	
different countries, accept payments 24/7, charity websites	
accenting donations 24/7 etc	
KO8 - What disadvantages does using the internet have to	
different holders of information?	
<u>(d) Individuals</u>	
-Potential for identity there, cost of data connection to the	
internet etc.	
(b) Organisations	
-Threats caused by malicious attacks, cost of maintaining	
websites and data stores etc.	
KQ1 - What different forms does information take?	
(a) Styles	
-Text (different character sets) e.g. Western. Cyrillic. Arabic.	
etc.	
-Graphic e g logo photograph diagram	
-Video e g instructional video live broadcast	
Animated graphic e.g. animated diagram, non-up advort	
Audio o g enokon instructiono music tra du	
-Audio e.g. spoken instructions, music track	
-Numerical e.g. profit, date and time	
-Brailie text e.g. written report printed on a Braille printer.	
-Tactile images - for people who cannot view conventional	
images by sight e.g. NASA's Hubble Space Telescope.	
-Subtitles e.g. translated speech for a film.	
-Boolean e.g. yes or no answer on a form.	



-Tables and spreadsheets e.g. simple database tables and	
spreadsheets.	
-Charts and graphs e.g. identifying trends, making	
comparisons.	
(b) Purpose/uses	
-Of each of the different information styles.	
- The use of the same style for unterent purposes.	
(a) Classification	
-Sensitive non-sensitive private public personal business	
confidential, classified, partially anonymised, completely	
anonymised	
-Purpose/characteristics of each	
(b) Impacts	
-Impact on holders of information of different types of	
information.	
KQ3 - Which characteristics dictate the quality of	
information?	
(a) Characteristics	
-Valid, bias, reliable, comparable.	
(b) Importance	
-Of good quality information to stakeholders	
-innovation, agility, improved strategic decision making and	
(c) Consequences	
-Of noor quality information on stakeholders on a	
stakeholders	
-Misinformation, reputational damage, accuracy of decision	
making	
KQ4 – How is information managed within an	
organisation?	
organisation? (a) Management of Information	
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(a) Categories of information	
-Communication e.g. to send an email.	
-Education and training e.g. to check grades/feedback.	
-Entertainment e.g. to read a magazine film review.	
-Planning e.g. to use a shared electronic diary.	
-Financial e.g. to use a bank statement to help financial	
planning	
-Research - e.g. to look up information online	
-Location dependent - e.g. to search for a service when in a	
particular location.	
(b) Benefits/limitations/Uses	
-Of different categories of information by holders of	
information.	
-In a variety of scenarios	
KO3 - How is information used by different holders	
(organisations) of information?	
(a) Categories of information	
-Knowledge management and creation - e.g. to create an	
accurate model of key markets	
-Management information systems (MIS) - e.g. to monitor	
staff training personnel record of all staff	
-Marketing promotion and sales - e.g. to identify natterns	
or trends in sales figures	
-Financial analysis and modelling e.g. to determine the top	
selling products	
-Contact management e.g. to keen track of appointments at	
a doctor's surgery	
-Decision making e.g. the percentage of faulty items made	
each month by a manufacturer	
-Internal and external communication - e.g. to inform all of	
something	
(b) Rig data	
Data that is either too large or too complex for traditional	
data analysis techniques to be used	
e g the annual web clicks of a major online retailer health	
data on the nonulation of an entire country	
(c) Benefits/limitations/lises	
Of different categories of information by holders of	
information	
In a variety of scenarios	
Emorging Digital Practitionar Bathway	
Emerging Digital Practitioner Pathway	
Ontional Unit 2 HT1	
2 Other Security	
3 - Cyber Security	
0 - Project Ividiagement	
3 - Froduct Development	
12 - Mobile Technology	
17 – Internet of Everything	
18 - Computer Systems Hardware	
Application Developer Dathware	
Application Developer Pathway	
Ontional Unit 2 HT1	
Optional Unit 2 – HT1	
3 – Cyber Security	



8 – Project Management		
9 - Product Development		
12 - Mobile Technology		
15 - Games Design and Prototyping		
17 – Internet of Everything		
21 - Web Design and Prototyping		
HALF TERM 2:		Within optional unit, pathway dependant
All Pathways		
Unit 2 – Global Information		Within optional unit, pathway dependant
KOA - What are the different stages of data analysis?		
(a) Stages		
Identify the need e.g. what information is needed? What de	-	
we want to find out?)		Within optional unit nathway dependent
Define scope e.g. content detail timescales constraints	\frown	within optional and, pathway acpendant
-Identify notantial sources e.g. sales figures customer		
surveys	223	
-Source and select information e.g. determine accuracy and		
reliability of sources selecting the best		Links to business studies bow information is
-Select the most appropriate tools e.g. charts, graphs	-	Links to business studies - now information is
regression trend analysis	\mathbf{O}	used by different holders (buinesses) of
Process and analyse data e.g. set up a spreadsheet to	3	information?
nroduce a graph etc		Links to computer science – now data is
-Record and store information e.g. write a report based on		stored/cyber security.
the results of the processing		
-Share results - e.g. with stakeholders		
(b) Purnose/scone		
Of each of the different stages of data analysis		
KO5 - Which data analysis tools are available to an		
organisation?		
-Data tables - e σ a database table of natients		
-Visualisation of data - e.g. a nie chart showing sales figures		
-Trend and pattern identification - e.g. a line graph of sales		
per month		
-Data cleaning e.g. removing customers who have not made		
a purchase in the last two years.		
-Geographic information system/location mapping - e.g.		
tracking the movement of shipped items		
(b) Use		
-Of each data analysis tool		
-Justification of different data analysis tools in a given		
context.		
KQ6 - How can information systems be structured?		
(a) Information systems		
Open systems -		
-A system that regularly exchanges feedback with its		
external environment.		
Closed systems -		
-A closed system, interactions only happen within the		
specific system, which means closed systems are shut off		
from the outside environment.		
(b) characteristics		
-Of both open and closes systems		
(c) Benefits and limitations		
-Of both open and closes systems		



KQ1 - How does UK legislation and regulation govern the	
storage and use of information?	
(a) Legislation	
-Data Protection Act 1998 / General Data Protection	
Regulation	
-Regulation of Investigatory Powers Act 2000	
-Protection of Freedoms Act 2012	
-Privacy and Electronic Communications Regulations 2003	
(amended 2011)	
-Freedom of Information Act 2000	
-Computer Misuse Act 1990	
-Information Commissioner's Office (ICO) codes of practice	
-Convright Designs and Patents Act 1988	
-Equality Act (EOA) 2011	
(b) Compliance	
Actions that can be taken by organisations to comply with	
legislation and regulatory requirements	
(a) Impact and consequences	
<u>On arganizations anarating in the UK and the way they</u>	
-on organisations operating in the OK and the Way they	
nancie information and individuals personal data 2	
KQ2 - How does global information protection legislation	
and regulation govern the storage and use of information?	
(a) Legislation	
-Regulation relating to data protection outside the UK - USA,	
France, Far East and Africa.	
-Comparison between data protection legislation/regulation	
in different countries - similar in many countries, but not all.	
(b) UNCRPD	
-UN Convention on the Rights of Persons with Disabilities -	
specifically recognises (under articles 9 and 21) that access	
to information, communications and services, including the	
internet, is a human right.	
KQ3 - How does global requirements promote green IT?	
UK legislation and regulation govern the storage and use of	
information?	
(a) Global requirements on organisations and individuals	
-United Nations Climate Change Summits	
-The purpose and scope of.	
(b) UK Government policy	
-Environmental Protection Act 1990	
-Waste Electrical and Electronic Equipment Directive	
-Greening Government ICT Strategy 2011	
-The nurnose and scope of	
(c) Repetits	
<u>Reducing carbon footnrint</u>	
-Sustainability - Resources	
-10 a company - Enhanced brand image, reduced energy	
costs.	
KQ1 - Where is data collected and what forms does it take?	
(a) Data sources	
-Internal source e.g. internal financial reports, market	
analysis.	
-External source e.g. supplier price lists, financial report	
from a third party.	
(b) Types of Data	



-Primary data e.g. reports direct from employees, personal	
data taken from customers etc.	
-Secondary data e.g. data received from a market research	
company, interest rate charged on a loan from a bank etc.	
-Qualitative data e.g. the colour of products, the names of	
employees.	
-Quantitative data e.g. expiry date of medicines, the number	
of staff working in an organisation.	
(c) Purpose/characteristics	
-The purpose and characteristics of each data source.	
-The purpose, characteristics and use, of each data type.	
KQ2 - How can the flow of information in a business be	
represented diagrammatically?	
(a) Data Flow Notation	
-External entities, processes, data stores, data flows	
-Standard symbols used	
(b) Level 1 DFD Connectivity Rules	
-At least one input or output for each external entity	
-Data flows only in one direction	
-Every data flow is labelled	
-Every data flow connects to at least one process	
-At least one input data flow and/or at least one output data	
flow for each process	
(c) Impacts	
-Impacts affecting the flow of information in information	
systems	
KQ3 - What are the principles which govern data security?	
(a) Principles	
-Confidentiality – information can only be accessed by	
individuals, groups or processes authorised to do so	
-Integrity – information is maintained, so that it is up to	
date, accurate, complete and fit for purpose	
-Availability – information is always available to and usable	
by the individuals, groups or processes that need to use it,	
when the data is required.	
KQ4 - Which risks are associated with the storage of data?	
(a) Risks	
-Unauthorised unintended access to data - espionage, poor	
information security policy.	
-Accidental loss of data - human error, equipment failure.	
-Intentional destruction of data - computer virus, targeted	
malicious attack	
-Intentional tampering with data - fraudulent activity,	
hacking	
(b) Impacts	
-Loss of intellectual property, loss of service and access,	
failure in the security of confidential information, loss of	
information belonging to a third party, loss of reputation,	
threat to national security, recent cases of failures of	
information security	
-The winder effects of these impacts	
KQ5 - How can policies and documentation help protect	
data that is stored?	
(a) Policies	
-Staff access rights to information, responsibilities of staff	
for security of information, disaster recovery.	
-Purpose and scope of each policy	
(b) Other documentation	



KQ6 - How can physical protection help protect data that is stored? Image: Constraint of the store of	
stored' (a) Methods -Locks, keypads and biometrics used on workstations and server room access -Placing computers above known flood levels -Backup systems in other locations -Security staff -Shredding old paper-based records KQ7 - How can logical protection help protect data that is stored? (a) Methods -Computational methods of protecting data. -Tiered levels of access to data, firewalls (hardware and software), anti-malware applications, obfuscation, encryption of data at rest, encryption of data in transit, password protection method. Emerging Digital Practitioner Pathway Optional Unit 2 - HT2 3 - Cyber Security 8 - Project Management 9 - Product Development 12 - Mobile Technology 17 - Internet of Everything 18 - Computer Systems Hardware Application Developer Pathway Optional Unit 2 - HT2 3 - Cyber Security 8 - Project Management 9 - Product Development 12 - Mobile Technology 17 - Internet of Everything 18 - Computer Systems Hardware Application Development 12 - Mobile Technology 15 - Games Design and Prototyping 17 - Internet of Everything 12 - Mobile Technology 15 - Games Design and Prototyping 17 - Internet of Everything 12 - Mobile Technology	
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12 - Mobile Technology		Within optional unit pathway dependent
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15 - Games Design and Prototyping		
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21 - Web Design and Prototyping		
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		designed to help protect data that is stored
All Pathways		
Emerging Digital Practitioner Pathway		
		Within optional unit, pathway dependant
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3 – Cyber Security		
8 – Project Management		Within optional unit, pathway dependant
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8 – Project Management		
9 - Product Development		
12 - Mobile Technology		
15 - Games Design and Prototyping		
17 – Internet of Everything		
21 - Web Design and Prototyping		