

Avon & Frome ICT

This scheme of work covers two years as some pupils stay with us for more than one year in KS3. Each of these topics is skills-based with a large amount of inbuilt repetition between units to aid memorisation. Often one topic will cover two aspects of the curriculum. The whole group works within one topic, but may be on different units depending on their attendance in lessons, whether they have been in the groups for more than a year and on their assessment at the beginning of the unit. Sometimes pupils will be given an extension task within one particular unit. Pupils in Y9 who have been with us in Y8 and have shown that they have ability with ICT, will do the ITQ CLAIT units towards and internal or external award.

Topic	Package & notes	Term (Roughly)
DTP	Publisher	1
Presentations	Powerpoint	1
Web design (Frome only)	Front Page	2
Spreadsheets & Graphs	Excel	2
Word Processing	Word	3
File management	This work is interspersed between units in word processing	3
Graphics/Computer Art	Word and Paint	3
Databases	Access	4
ICT & Maths, Surveys, Logic & branching databases	Survey monkey Power point, excel	4
Block coding	Raspberry Pi for Scratch 2	4/5
Email	Google/Google classroom	5
Internet searches & safety	Covered in PHSE, revised here	5
ICT in Science	Revision unit	6
Touch typing	Dancemat/online typing	interspersed
Photo story/ pivot stick animation/logo	Powerpoint and others	

Cross-curricular nature of ICT syllabus: The syllabus touches on ideas from different areas of the curriculum

Maths	Science	English	Humanities/Arts	PHSE
Logic pathways, Venn & Carroll diagrams	Satellites	Modelled writing in different forms and styles.	Presentation on country or historical period	Knowledge of aspects of British culture
Keys & sorting	Keys & classification	Asking questions in keys & surveys	Presentation on artist or composer	Positive attitude to reading
Logic of file management	Electricity safety Circuit diagrams and symbols V=IR calculations	Correct way to address others in emails	Web page on Artist	Writing for needs of different ages e.g. elderly, pre-school children, KS1 poster
Graph types and consideration of suitability	Cells, food chains, living vs non-living	Punctuation when word processing	Consideration of colour balance	Safety – use of smoke alarm
Generalisation of calculations to produce a formula	Rocks, ores, Extraction Structure of the Earth	Layout of email and letters	Consideration of layout of posters and webpages	Knowledge and appreciation of the work of the Royal Family
Tessellation, direction and transformation	Periodic table	Thinking about needs of audience	Presentation on	Internet safety
2D and 3D shapes pythagoras	Materials and their uses	Fact vs opinion	Use of web based maps	Surveys
Generating sequences		Finding main ideas	Bibliographies	Healthy living

				Businesses and the world of work
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