

Co-op Academy Walkden Curriculum Overview 2025-2027



Co-op Academy
Walkden

KS3 Subject:	DT	at KS3 some classes will not follow this curriculum order based on rooming limitations, for example, some classes will start in the workshop and move to an IT room or classroom later in the year to allow other cl					
KS4 Qualifications	DT and Construction						
5 Power Concepts:		1	2	3	4	5	
Year Group	Term	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
	Title/Theme	Papers & Boards	Textiles	Tombers - YoYo	CAD	Careers	
7	Units	Baseline assessment, Graphics based materials	- origin/source materials, material prodction, textiles and sustainability, practical skills; different stitches, applique, using a sewing machine etc	timbers and manufactured board theory knowledge, workshop safety and basic tools use - shaping wood, pillar drill, coping saw, file, scroll saw, belt sander,	CAD/CAM - how is it used in todays modern world? pros/cons. Using CAD to develop their own designs. design competition - winning design 3D printed.	Careers in DT/STEM using the new online career platform.	at KS3 some classes will not follow this curriculum order based on rooming limitations, for example, some classes will start in the workshop and move to an
8	Title/Theme	Architecture, interiors, graphics, 2 point perspective - year long developing project					
	Units	design brief, floor plans/ layouts etc, interpreting drawings, research and moodboards, architecture research	2 point persepective drawing skills and assessment	architecture research, design development, card manipulation and modelling skills. building design and make	building design and make	interior design and make cross section	logo design - graphics
9	Title/Theme	Scalextrics	scalextrics	Textiles - surface print	Textiles - surface print	Materials and Design - clock, lamination	Materials and Design - clock, lamination
	Units	formers, rapid prototype, shaping and modelling skills, answering a brief, vacuum forming, polymers and processes,	soldering irons, electronics - wiring a basic ciruit. construction and testing.	surface print design and reserach, vinyls, screen printing	surface print design and reserach, vinyls, screen printing	answering a brief, research, design, drawing skills, materila knowlegde, stakeholder feedback	applying materials to design ideas, production of clock.
10 DT - New OCR spec	Title/Theme	Intro to OCR	Material processes	IKEA case study and mock brief	IKEA case study and mock brief	NEA	NEA
	Units	- Design/make challenge desk tidy - drawing skills - Timbers theory - polymers theory - textiles theory (seccion B)	workshop skills, students produce a sample portfolio of each material area and processes (timbers, polymers, etc). Theory	- disassembly, product analysis, research, stakeholders, prototypes	understanding the NEA - mock mini project	students begin the controlled NEA - research, brief analysis, iterative design process	NEA continued, iterative design pro
10 Construction	Title/Theme	Construction - Practical portfolio	Construction - practical portfolio	Construction - The Built Environment life cycle & Aldi commercial build Case Study	Building structures and types	Construction - The Built Environment life cycle & sustainability in Construction, materials & technologies	x
	Units	Unit 3 - coursework skills prep, practice coursework tasks and Unit 1 theory interleaved.	Unit 3 - coursework skills prep, practice coursework tasks and Unit 1 theory interleaved.	Unit 1 - extraction of raw materials, manufacturing, onsite construction, operation & maintenance, end of life	Unit 1 - commerical/residential etc - cellular, portal frame etc heritage, conservation etc	Unit 1 - extraction of raw materials, manufacturing, onsite construction, operation & maintenance, end of life	x
	Title/Theme	EXam 2 & portfolio 2 - Unit 1	Exam 3 & portfolio 3 - Unit 1	Unit 1 - exam content & revision	Unit 1 - exam content & revision	Unit 1 - exam content & revision	x

11 Construction	Units	unit 3 - 2nd portfolio students to complete CA portfolio and scheduled practical exam 2. Exam theory mixed in also for unit 1	unit 3 - 3rd portfolio students to complete CA portfolio and scheduled practical exam 2. Exam theory mixed in also for unit 1	Unit 1 - extraction of raw materials, manufacturing, onsite construction, operation & maintenance, end of life demolition, removal & disposal	Unit 1 - commercial/residential etc - cellular, portal frame etc heritage, conservation etc	practice questions, revision skills	x
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