Construction Studies Project Checklist

CONSTRUCTION PROJECTS

Chapter	Description	Tick	Comment

1	**PROJECT PLANNING**
	Introduction to project explaining what you are going to do
	
	• Project Brief:
	  ○ statement describing what you want to achieve
	• Analysis of brief:
	  ○ detail about what you are planning: research, design, manufacture etc.
	• Aims & objectives
	• Time management
	  ○ chart / diagram showing breakdown of time (e.g. ghant chart)
	• Budget
	  ○ estimate of cost, materials finishes etc
		☐
		☐
		☐
		☐
		☐	

2	**RESEARCH & INVESTIGATION OF CONSTRUCTION TOPIC**
	Use notes, images, sketches etc. Comment on all research presented
	
	• Introduction to construction topic/area
	  ○ Explain the basics of the area
	  ○ Historical development
	• Functions and principles
	  ○ principles
	  ○ functions
	• Terminology in construction topic/area
	  ○ Construction parts and components
	  ○ typical sizes
	• Building Regulations
	  ○ Requirements of construction area to meet current building regulations, e.g.
	  ○ Structure, energy efficiency, ventilation, fire etc.
	• Methods of Construction
	  ○ Traditional methods
	  ○ Modern or new construction methods
	  ○ Advantages/ disadvantages of different methods
	• Materials
	  ○ Timber, concrete, aggregates, etc.
	  ○ Environmentally sustainable materials (e.g. FSC timber, eco insulations etc.)
	• Sustainability
	  ○ Energy efficiency
	  ○ Carbon footprint, embodied energy
	  ○ Eco materials, recycled and renewable materials
	• Key findings
	  ○ what you learned from research and investigation
	• Research material referenced/acknowledged
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3	**DESIGN OF CONSTRUCTION ARTEFACT**
	Notes, sketches, CAD or mechanical drawings.
	
	• Design ideas for artefact
	  ○ Development of 1st idea to final solution of artefact
	  ○ Sketches rendered, labelled & explained
	  ○ Use of scale for new technology artefact (if not full size)
	• Final design
	  ○ 3D sketch showing all details and assembly method
	  ○ Working drawings: scaled & dimensioned
	• Cutting list/ materials list
	• Models/Mock-ups, templates, marking out-boards
		☐
		☐
		☐
		☐	

ITEM	AMOUNT	LENGTH	WIDTH	THICKNESS	MATERIAL

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4	**MANUFACTURE OF CONSTRUCTION ARTEFACT**
	Notes, sketches and pictures of how the project artefact was made
	
	• Preparation of materials
	• Marking out
	• Processing
	  ○ Cutting
	  ○ Shaping
	• Assembly/gluing up
	• Finishing
	• Modifications
	• Any changes to design explained
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		☐
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		☐
		☐
		☐
		☐	

5	**EVALUATION OF PROJECT**
	
	• Critical appraisal of project
	  ○ Good and bad points of project
	  ○ Areas that could be improved
	• Personal Reflection
	• What you learned from project
	• Picture or sketch of completed artefact
		☐
		☐
		☐
		☐	

6	**EXPERIMENTAL WORK**
	3 experiments conducted and recorded. Relate the experiments to your project if possible
	
	• Experiment 1
	  ○ Title of experiment
	  ○ Introduction/theory
	  ○ Preparation & planning
	  ○ Procedure
	  ○ Results
	  ○ Conclusions & evaluation of results
	  ○ Comments
	  ○ Evidence of experiments – photos, materials, results submitted
	• Experiment 2
	  ○ Title of experiment
	  ○ Introduction/theory
	  ○ Preparation & planning
	  ○ Procedure
	  ○ Results
	  ○ Conclusions & evaluation of results
	  ○ Comments
	  ○ Evidence of experiments – photos, materials, results submitted
	• Experiment 3
	  ○ Title of experiment
	  ○ Introduction/theory
	  ○ Preparation & planning
	  ○ Procedure
	  ○ Results
	  ○ Conclusions & evaluation of results
	  ○ Comments
	  ○ Evidence of experiments – photos, materials, results submitted
		☐
		☐
		☐	

	• **PROJECT ARTEFACT** • Project Artefact completed • Examination No. Tag on Project • Project templates, jigs or marking-out boards presented • Project Presented in attractive manner • Projects presented in numerical order	☐	

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Construction Studies Project Checklist

FURNITURE PROJECTS

Chapter	Description	Tick	Comment

1	**PROJECT PLANNING**
	Introduction to project explaining what you are going to do
	
	• Project Brief:
	  ○ statement describing what you want to achieve
	• Analysis of brief:
	  ○ further detail about what you are planning: research, design, manufacture etc
	• Aims & objectives
	• Time management
	  ○ chart / diagram showing breakdown of time (e.g. ghant chart)
	• Budget
	  ○ estimate of cost, materials finishes etc
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		☐
		☐
		☐	

2	**RESEARCH & INVESTIGATION OF FURNITURE**
	Use notes, images, sketches etc. Comment on all research presented
	
	• Introduction to furniture type
	  ○ Explain where your project will be located or used (use images/sketches)
	• History of furniture type
	  ○ development of furniture design
	  ○ key furniture styles
	  ○ current/modern furniture design and styles
	• Principles of furniture design
	  ○ ergonomics of furniture
	  ○ typical sizes
	• Construction/Assembly methods
	  ○ Traditional joinery
	  ○ Modern assembly
	  ○ flat pack
	• Materials
	  ○ timbers
	  ○ environmentally sustainable materials (e.g. FSC timber)
	  ○ fixtures and fitting
	  ○ finishes
	• Wood Crafts (only do of related to your project)
	  ○ woodturning
	  ○ carving
	  ○ veneering, marquetry, inlaying
	  ○ lamination and bending
	• Key findings
	  ○ what you learned from research and invstigation
	• Research material referenced/acknowledged
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		☐
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3	**DESIGN OF FURNITURE ARTEFACT**
	Notes, sketches, CAD or mechanical drawings.
	
	• Design ideas for artefact
	  ○ Development of 1st idea to final solution of furniture design
	  ○ Sketches rendered, labelled & explained
	• Final design
	  ○ 3D sketch showing all jointing/ assembly methods,
	  ○ Working drawings: scaled & dimensioned
	• Cutting list/ materials list
	
	• Models/Mock-ups, templates, marking out-boards
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		☐
		☐
		☐	

ITEM	AMOUNT	LENGTH	WIDTH	THICKNESS	MATERIAL

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4	**Manufacture of Furniture Artefact**
	Notes, sketches and pictures of how the project was made
	
	• Preparation of materials
	• Marking out
	• Processing
	  ○ Joint making
	  ○ Shaping
	  ○ Wood crafts
	• Assembly/gluing up
	• Finishing
	• Modifications
	• Any changes to design explained
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		☐
		☐
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		☐
		☐
		☐
		☐	

5	**EVALUATION OF PROJECT**
	
	• Critical appraisal of project
	  ○ Good and bad point of project
	  ○ Areas that could be improved
	• Personal Reflection
	• What you learned from project
	• Picture or sketch of completed artefact
		☐
		☐
		☐
		☐	

6	**EXPERIMENTAL WORK**
	3 experiments conducted and recorded. Relate the experiments to your project if possible
	
	• Experiment 1
	  ○ Title of experiment
	  ○ Introduction/theory
	  ○ Preparation & planning
	  ○ Procedure
	  ○ Results
	  ○ Conclusions & evaluation of results
	  ○ Comments
	  ○ Evidence of experiments – photos, materials, results submitted
	• Experiment 2
	  ○ Title of experiment
	  ○ Introduction/theory
	  ○ Preparation & planning
	  ○ Procedure
	  ○ Results
	  ○ Conclusions & evaluation of results
	  ○ Comments
	  ○ Evidence of experiments – photos, materials, results submitted
	• Experiment 3
	  ○ Title of experiment
	  ○ Introduction/theory
	  ○ Preparation & planning
	  ○ Procedure
	  ○ Results
	  ○ Conclusions & evaluation of results
	  ○ Comments
	  ○ Evidence of experiments – photos, materials, results submitted
		☐
		☐
		☐	

	• **PROJECT ARTEFACT** • Project Artefact completed • Examination No. Tag on Project • Project templates, jigs or marking-out boards presented • Project Presented in attractive manner • Projects presented in numerical order	☐	

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Construction Studies Project Checklist

HERITAGE PROJECTS

Chapter	Description	Tick	Comment

1	**PROJECT PLANNING**
	Introduction to project explaining what you are going to do
	
	• Project Brief:
	  ○ statement describing what you want to achieve
	• Analysis of brief:
	  ○ detail about what you are planning: research, design, manufacture etc.
	• Aims & objectives
	• Time management
	  ○ chart / diagram showing breakdown of time (e.g. ghant chart)
	• Budget
	  ○ estimate of cost, materials finishes etc
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		☐
		☐
		☐
		☐	

2	**RESEARCH & INVESTIGATION OF HERITAGE TOPIC**
	Use notes, images, sketches etc. Comment on all research presented
	
	• Introduction to heritage topic or building
	  ○ Historical background of heritage area/building
	  ○ Historical importance of heritage building/ area to
	• Functions of heritage area/building
	  ○ Functions
	  ○ Uses and features
	• Survey of heritage building/artefact
	  ○ Location of building (map/ drawings)
	  ○ Measurements and sizes
	  ○ Notable features
	  ○ Original design vs current state
	
	• Method of Construction
	  ○ How heritage building/artefact was made
	  ○ Traditional methods used
	  ○ Any modifications or changes during lifetime
	• Materials
	  ○ Materials used for original construction
	  ○ Model making or reproduction materials
	• Key findings
	  ○ what you learned from research and investigation
	• Research material referenced/acknowledged
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		☐
		☐
		☐
		☐	

3	**DESIGN OF HERITAGE ARTEFACT**
	Notes, sketches, CAD or mechanical drawings.
	
	• Design ideas for artefact
	  ○ Use of scale for building or design for re-production of artefact
	  ○ Development of 1st idea to final solution of artefact
	  ○ Sketches rendered, labelled & explained
	• Final design
	  ○ 3D sketch showing all details and assembly method
	  ○ Working drawings: scaled & dimensioned
	• Cutting list/ materials list
	
	• Models/Mock-ups, templates, marking out-boards
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		☐
		☐	

ITEM	AMOUNT	LENGTH	WIDTH	THICKNESS	MATERIAL

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4	**MANUFACTURE OF HERITAGE PROJECT**
	Notes, sketches and pictures of how the project artefact was made
	
	• Preparation of materials
	• Marking out
	• Processing
	  ○ Cutting
	  ○ Shaping
	• Assembly/gluing up
	• Finishing
	• Modifications
	• Any changes to design explained
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		☐
		☐	

5	**EVALUATION OF PROJECT**
	
	• Critical appraisal of project
	  ○ Good and bad points of project
	  ○ Areas that could be improved
	• Personal Reflection
	• What you learned from project
	• Picture or sketch of completed artefact
		☐
		☐
		☐
		☐	

6	**EXPERIMENTAL WORK**
	3 experiments conducted and recorded. Relate the experiments to your project if possible
	
	• Experiment 1
	  ○ Title of experiment
	  ○ Introduction/theory
	  ○ Preparation & planning
	  ○ Procedure
	  ○ Results
	  ○ Conclusions & evaluation of results
	  ○ Comments
	  ○ Evidence of experiments – photos, materials, results submitted
	• Experiment 2
	  ○ Title of experiment
	  ○ Introduction/theory
	  ○ Preparation & planning
	  ○ Procedure
	  ○ Results
	  ○ Conclusions & evaluation of results
	  ○ Comments
	  ○ Evidence of experiments – photos, materials, results submitted
	• Experiment 3
	  ○ Title of experiment
	  ○ Introduction/theory
	  ○ Preparation & planning
	  ○ Procedure
	  ○ Results
	  ○ Conclusions & evaluation of results
	  ○ Comments
	  ○ Evidence of experiments – photos, materials, results submitted
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Construction Studies Project Checklist

NEW TECHNOLOGIES PROJECTS

Chapter	Description	Tick	Comment

1	**PROJECT PLANNING**
	Introduction to project explaining what you are going to do
	
	• Project Brief:
	  ○ statement describing what you want to achieve
	• Analysis of brief:
	  ○ detail about what you are planning: research, design, manufacture etc.
	• Aims & objectives
	• Time management
	  ○ chart / diagram showing breakdown of time (e.g. ghant chart)
	• Budget
	  ○ estimate of cost, materials finishes etc
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		☐
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2	**RESEARCH & INVESTIGATION OF NEW TECHNOLOGY TOPIC**
	Use notes, images, sketches etc. Comment on all research presented
	
	• Introduction to New Technology topic/area
	  ○ Explain the basics of the area
	  ○ Development of new technology
	• Functions and principles
	  ○ principles
	  ○ functions
	• Terminology in new technology topic/area
	  ○ Construction parts and components
	  ○ typical sizes
	• Building Regulations
	  ○ How new technologies meet building regulations
	  ○ Structure, energy efficiency, ventilation, fire etc.
	• Methods of Construction
	  ○ Detail of how new technology is made/constructed/assembled
	  ○ Advantages/ disadvantages of new technology vs traditional technology used
	• Materials
	  ○ Materials used to make/construct new technology
	  ○ Environmentally sustainable materials (e.g. FSC timber, eco insulations etc.)
	• Sustainability
	  ○ Energy efficiency
	  ○ Carbon footprint, embodied energy
	  ○ Eco materials, recycled and renewable materials
	• Key findings
	  ○ what you learned from research and investigation
	• Research material referenced/acknowledged
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		☐
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		☐
		☐	

3	**DESIGN OF NEW TECHNOLOGY ARTEFACT**
	Notes, sketches, CAD or mechanical drawings.
	
	• Design ideas for artefact
	  ○ Development of 1st idea to final solution of artefact
	  ○ Sketches rendered, labelled & explained
	  ○ Use of scale for new technology artefact (if not full size)
	• Final design
	  ○ 3D sketch showing all details and assembly method
	  ○ Working drawings: scaled & dimensioned
	• Cutting list/ materials list
	
	ITEM | AMOUNT | LENGTH | WIDTH | THICKNESS | MATERIAL
	• Models/Mock-ups, templates, marking out-boards
		☐
		☐
		☐	

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4	**MANUFACTURE OF NEW TECHNOLOGY ARTEFACT**
	Notes, sketches and pictures of how the project artefact was made
	
	• Preparation of materials
	• Marking out
	• Processing
	  ○ Cutting
	  ○ Shaping
	• Assembly/gluing up
	• Finishing
	• Modifications
	• Any changes to design explained
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5	**EVALUATION OF PROJECT**
	
	• Critical appraisal of project
	  ○ Good and bad points of project
	  ○ Areas that could be improved
	• Personal Reflection
	• What you learned from project
	• Picture or sketch of completed artefact
		☐
		☐
		☐
		☐	

6	**EXPERIMENTAL WORK**
	3 experiments conducted and recorded. Relate the experiments to your project if possible
	
	• Experiment 1
	  ○ Title of experiment
	  ○ Introduction/theory
	  ○ Preparation & planning
	  ○ Procedure
	  ○ Results
	  ○ Conclusions & evaluation of results
	  ○ Comments
	  ○ Evidence of experiments – photos, materials, results submitted
	• Experiment 2
	  ○ Title of experiment
	  ○ Introduction/theory
	  ○ Preparation & planning
	  ○ Procedure
	  ○ Results
	  ○ Conclusions & evaluation of results
	  ○ Comments
	  ○ Evidence of experiments – photos, materials, results submitted
	• Experiment 3
	  ○ Title of experiment
	  ○ Introduction/theory
	  ○ Preparation & planning
	  ○ Procedure
	  ○ Results
	  ○ Conclusions & evaluation of results
	  ○ Comments
	  ○ Evidence of experiments – photos, materials, results submitted
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		☐	

	• **PROJECT ARTEFACT** • Project Artefact completed • Examination No. Tag on Project • Project templates, jigs or marking-out boards presented • Project Presented in attractive manner • Projects presented in numerical order	☐	

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