Sir John Leman High School - Materials curriculum journey

Test & Evaluate
Does your product work?

REVISE

Technical Principles 1

Design & Make Principles 2

Design for Manufacture
Industrial Manufacture

Social Design
Impact on society

Design Evolution
Why design changes

Design Theory

NEA

YEAR 13

NEA

DMA 2

Ergonomics

Manufacture
Making a quality Product

Design Development
Iterative Designing

Specification
What criteria does your product need to meet?

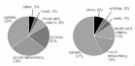
Investigation
Primary & Secondary Research

Design History

ICT in Design & Manufacture

Communication

DMA 1



REVISE

YEAR 12

FPT's

Planning
How can you evidence production?

Construction
How can you evidence H&S?

Testing
Client evaluation and modifications

Core
Section A,B,C

Materials
Classification & Properties

Manufacturing Processes
How to make?

KS5

NEA

YEAR 11

NEA

Iterative designing

MINI NEA

FPT METAL

Manufacturing specification
Understand material management

Development of ideas

Context development

Gears and mechanisms

Classifications of metals

Joining

KS4

USB LAMP

YEAR 10

FPT TIMBER

FPT PLASTIC

Modelling Skills

Electronics

Batch Production

Timber Joints

Accuracy

Heat processes

Planning

ICONIC CHAIR

YEAR 9

ACTIVITY PACK

Iconic Designers

Recap H&S

Net Development

Market Needs

Timber Joints

Metals

POP-UP BOOK

YEAR 8

PEWTER CASTING

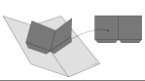
Visual Communication

Mechanisms & Motion

Graphical Tools

Recap H&S

Mould Making



CAD / CAM

PASSIVE SPEAKER

YEAR 7

KS3

2D Design Skills

Classification of Timber

Function of Tools

Health & Safety in Workshop