

# Design & Technology

## Sequence of Learning

A Visual Roadmap Through Key Stages

# Learning Journey Overview

Progressive development across key stages

## Discover

KS2 & KS3

## Explore

KS3

## Aspire

Year 9

## Lead

KS4

## Ready

Post-16

# DISCOVER

## Key Stage 2 & 3 - Building foundational skills

### Key Concepts

- Describe how historical products influenced design
- Identify material properties and create structures
- Generate and visualize design ideas

### Making & Understanding

- Produce plans with labeled sketches
- Understand different drawing views
- Research designers and products
- Prototype frame structures

# EXPLORE

## Key Stage 3 - Developing design independence

### Design Skills

- Produce labeled sketches and plans
- Check work against plans and annotate
- Use cultural influences in design choices
- Explain choices and compare products

### Technical Development

- Select appropriate materials
- Demonstrate safe use of tools
- Apply finishing techniques
- Evaluate and suggest improvements

# ASPIRE

## Year 9 - Refining skills and making choices

### **Advanced Design**

- Create detailed design specifications
- Develop multiple design solutions
- Use CAD/CAM for precision
- Consider environmental and social factors

### **Making Excellence**

- Demonstrate accuracy in construction
- Select and use complex tools
- Apply quality control checks
- Evaluate against specification

# LEAD

## Key Stage 4 - Demonstrating expertise and innovation

### Professional Practice

- Explore techniques to improve skills
- Review techniques to improve outcomes
- Explore skills for progression goals
- Produce progression plans

### Industry Awareness

- Understand product development
- Consider sustainability and ethics
- Apply project management
- Present professional portfolios

# READY

## Post-16 - Preparing for career and higher education

### Career Readiness

- Develop employability skills
- Explore apprenticeships and internships
- Build professional portfolios
- Understand next steps in education

### Advanced Technical Skills

- Master electronic and robotic design
- Apply office and digital design tools
- Respond to feedback professionally
- Demonstrate health and safety knowledge

# Progressive Development

How skills deepen across key stages

## Foundation

### **KS2-3: Discover & Explore**

Identify, describe, and explain basic concepts and techniques

## Development

### **Year 9: Aspire**

Suggest, recognize, and manage design challenges independently

## Mastery

### **KS4-P16: Lead & Ready**

Assess, demonstrate, and evaluate with professional competence

Continuous growth from basic awareness to confident, independent practice



# Empowering Students

**Through progressive Design & Technology education**

Building confident, skilled designers and makers ready for future  
careers and creative challenges