

Year 7 Art and Technologies

'WE AIM TO EQUIP STUDENTS WITH THE KNOWLEDGE, SKILLS AND CONFIDENCE TO CREATE, INNOVATE AND CRITICALLY ENGAGE WITH THE WORLD AROUND THEM'

Students are taught on a carousel, so will complete these projects and subjects over the course of the year.

Art & Design – Elements of Art, 'Sweet Treats'

What will I study?

In this project you will:

- Learn about the elements of art and how they are used in art
- Develop your Artistic skills, in shading, recording accurately and painting

Artists Studied

- Wayne Thiebaud – Pop Artist
- Tom Hovey – Illustrator

Assessments

- Tonal drawing of sweets
- Cake mixed media painting
- Final painting

Keywords:

Line, Shape, Form, Colour (tints and shades), Texture & Perspective

Art & Design – Sculpture

What will I study?

In this project you will:

- Develop your skills in sculpture, learning to manipulate materials to create art forms

Inspiration

- Anish Kapoor
- Barbara Hepworth
- Yayoi Kusama

Assessments

- Cake Sculpture

Keywords & terms

- Proportion, Forms, refine, abstract, relief & Modelling

Art & Design – Pattern and Print - Leaves

What will I study?

In this project you will:

- Develop your understanding of colour and painting skills
- Learn to print in a repeat pattern
- Develop your design skills, using a motif

Artists studied

- Orla Keily

Assessments

- Colour and pattern Leaf
- Final Print

Keywords & terms

Space, Colour Theory, Pattern, Motif and Composition

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Vision: The Art & Technologies subjects provide engaging, inspiring, creative and challenging projects, across the disciplines of Art, Computing, Design & Technology, Photography, Food Technology and Textiles. We aim to equip students with the knowledge, skills, and confidence to create, innovate, and critically engage with the world around them. Students will create their own work and products, using a range of materials and processes.

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Design Technology- Picture Frames

What will I study?

In this project you will:

- Learn about different wood types
- Learn to work safely in the workshop
- Learn to use hand tools
- Learn working technique

Design Brief

You have been asked by a souvenir shop to design and make a photo frame that they can sell in their giftshops.

How will I be assessed?

- Making your product, using tools appropriately and following health & safety rules
- Final product
- Written evaluation

Textiles – Fabric Faces

What will I study?

In this project you will:

- Develop your tonal colour pencil skills
- Learn textile techniques, such as embroidery, applique and weaving
- Develop your design skills

Artists studied

- Aardman animation – 'ClothWorld'

How will I be assessed?

- Colour pencil tonal fabric character
- Design work
- Final Fabric Character

Food Technology – Safe and Healthy in the Kitchen

What will I study?

In this project you will:

- Learn skills and techniques to cook different elements of healthy meals.
- Learn the importance of the Health and Safety rules in the kitchen.
- Develop your understanding of what makes a healthy diet

How will I be assessed?

Your practical making skills will be assessed in the following dishes:

- Potato Wedges – Knife Safety skills
- Chicken Nuggets – H&S, coating and seasoning
- Scones – following a recipe and baking

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Year 8 Art and Technologies

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Art- Portraiture – Animal and Human

What will I study?

In this project you will:

- Learn facial proportions
- Develop skills in portraiture drawing
- Develop skills in creating tones using coloured pencil
- Develop painting skills, using hot and cold colours

Artists studied:

Marion Rose

How will I be assessed?

- Tonal pencil eye drawing
- Animal Coloured pencil drawing
- Portrait painting

Art – African Masks

What will I study?

In this project you will:

- Learn about traditional African Masks
- Learn to stencil print on fabric
- Learn to Mono print
- Learn to use recycled card and paper pulp to create a mask

Artists studied

- Traditional African Art

How will I be assessed?

- Baseline tonal drawing – African Mask
- Mask designs
- Final Mask

Design Technology – Mood Light

What will I study?

In this project you will learn:

- Woodwork joints
- Technical Drawing skills using 2D design software
- Learn Electronics (circuits & soldering)

Design Brief

To design and make a light for a family member

How will I be assessed?

- Image design for light
- Electronics theory assessment
- Final product & written evaluation

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Photography – Architecture

What will I study?

In this project you will:

- Learn to create a photographic collage (physical and digitally)
- Develop skills in photography
- Develop tonal and line drawing skills
- Learn to use photopea

Design brief

Design and make a collage that could be used to promote a town.

Artists studied:

- Minty Sainsburys & Patric Dreier

How will I be assessed?

- Accurate drawings of Architecture
- Architecture photographs
- Final collage

Textiles – Under the Sea

What will I study?

In this project you will:

- Learn the following textile techniques, dyeing, stencil printing and hand sewing
- Learn printing processes

Design Brief

To design and make a printed sea creature image that could be sold in Sealife Centre's gift shop

Artists studied

- A brief history of Textile and Fashion artists

How will I be assessed?

- Tonal Drawing of sea creatures
- Design ideas
- Final fabric Piece

Food Technology – Our Food and Our World

What will I study?

In this project you will:

- Learn about food miles and how they affect the environment
- Sustainable fishing
- Learn how the choices made as consumers can make a difference.
- Develop your understanding of what makes a healthy diet

How will I be assessed?

Your practical making skills will be assessed in the following dishes:

- Pasta with a Tomato sauce – making a sauce & knife skills
- Macaroni Cheese – making a roux and sauce
- Fruit Crumble – following a recipe and baking

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Year 9 Art and Technologies

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Photography – Digital Skills – Part 1

What will I study?

In this project you will:

- Learn about the formal elements of photography
- Develop your understanding of the basic of photoshop
- Build confidence with digital camera use

Artists Studied

- Nick Fancher
- Andrew Whyte
- Francis Bruguiere

Assessments

- Photography outcomes - shutter speed, Aperture, white balance and ISO
- Selective colour edits
- Contrast edits

Photography – Digital Skills – Part 2

What will I study?

In this project you will:

- Learn how to analyse images
- Develop your editing skills inspired by works of contemporary photographers and artists
- Develop skills in digital edits through photoshop

Artists Studied

- Duane Michals
- William Daniels
- Peter Keetman

Assessments (photoshoot and Digital edit)

- Edit outcome in response to Duane Michael's
- Edit outcome in response to William Daniels
- Edit outcome in response to Peter Keetman

Food Technology – The Importance of Healthy Eating

What will I study?

In this project you will:

- Learn about the links between a poor diet and health issues, including tooth decay and cancer
- Learn about the effects of eating too much Ultra Processed Food
- Learn about food labelling and how this information can help you stay healthy

How will I be assessed?

Your practical making skills will be assessed in the following dishes:

- Mini Carrot Cakes– baking
- Chicken Korma – H&S, cooking with spices
- Create your own Burger – Adapting a recipe

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Art – Everyday Objects

What will I study?

In this project you will:

- Develop your observational drawing skills
- Develop your skills in painting
- Develop your skills in low relief sculpture

Artist's Studied

- Michael Craig- Martin
- Jon Burgerman

Assessments

- Tonal drawings of everyday objects
- Artist inspired painting
- Final low relief sculpture and painting

Art – Insect Repeat Prints

What will I study?

In this project you will:

- Learn to Press print
- Learn to print in a repeat pattern
- Develop your tonal drawing skills

Artist's Studied

- Orla Kiely – fashion/textile designer

How will I be assessed?

- Insect tonal drawing
- Colour pencil study
- Repeat Pattern press print

Design Technology – Sweet Dispenser

What will I study?

In this project you will:

- Learn to make a product template, which is measured correctly and how to transfer this on to a material
- Learn to make a rotary mechanism
- Learn to work and combine different materials, wood, metal & acrylic

Design Brief

You have been asked by a sweet company to design and make a sweet dispenser that can be, personalised and brought in shops or online

How will I be assessed?

- Product design
- Mechanism theory assessment
- Final product & written evaluation

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Year 7 Computing

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Autumn Term

What will I study?

Productivity & Access

In this unit of work, you will be introduced to the school network, Microsoft Teams and using a word processor.

E-Safety and Digital Citizenship

In this unit of work, you will learn about your digital footprint and how to keep your personal Data secure. We will also cover the Laws surrounding ICT and cybersecurity and how you can stay safe on the internet.

Micro:bit programming

In this unit of work, you will learn to program using Micro:bit, which uses Block and Text based programming, to create a Christmas decoration.

How will I be assessed?

You will be assessed through review assessments, quizzes and practical assessments of block programming tasks.

Spring Term

What will I study?

Cyber Explorers Introduction

In this unit of work, you will be introduced to Cyber Explorers which will become your main homework project.

Introduction to Code Studio

In this unit of work, you will be introduced to coding using blocks, developing an understanding of core principles such as sequencing, iteration (loops), selection, variable.

Algorithms and Abstraction

In this unit of work, you will look at algorithms, flowcharts and pseudocode.

How will I be assessed?

You will be assessed through review assessments, quizzes and practical assessments of Python programming tasks.

Summer Term

What will I study?

Introduction to Python

In this unit of work, you will learn the basics of text-based programming using Python. You will learn to apply basic algorithms through programming.

- Output
- variables
- selection
- Iteration (loops),
- applying to Micro:bits
- Robotics

How will I be assessed?

You will be assessed through review assessments, quizzes and practical assessments of Micro:bit projects.

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Year 8 Computing

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Autumn Term

What will I study?

Introduction to Teams: Students will learn to navigate the Microsoft Teams environment, manage assignments, and use collaborative tools effectively for their schoolwork.

Touch Typing: Using **Typing.com**, students will develop muscle memory and accuracy to increase their words-per-minute (WPM) speed, a foundational skill for efficient computing.

How Computers Work: Students explore the physical and logical components of hardware. Understanding what defines a computer, binary representation of data (1s and 0s), circuits and logic, and the role of the CPU and Memory.

Cyber Explorers: Students begin their journey with the **Cyber Explorers** platform, gaining an introduction to essential cybersecurity concepts and digital citizenship.

How will I be assessed?

You will be assessed through review assessments & quizzes.

Spring Term

What will I study?

How AI Works: Students will dive into the world of Artificial Intelligence. Understanding Machine Learning, training data, the mechanics of Neural Networks, Computer Vision, and the ethical implications of algorithmic bias.

Continuing Cyber Explorers: Building on Autumn's foundation, students complete more advanced challenges in cybersecurity, learning how to protect networks and personal data.

Introduction to Block Coding: Using the **Code.org Express Course**, students will master the logic of programming through a visual interface. Developing computational thinking through loops, conditionals, and events to solve complex puzzles.

How will I be assessed?

Assessment includes a practical project within the Code.org Express Course and a review assessment covering the core concepts of AI and machine learning.

Summer Term

What will I study?

Python Programming Crash Course: A fast-paced transition to text-based programming, moving from basic syntax to physical computing and robotics.

The Data Vault: Capturing user input using `input()` and converting data types using `int()` to perform mathematical calculations.

Selection (Decision Making): Using `if`, `elif`, and `else` statements alongside relational operators (like `>`) to create branching paths in code.

Iteration (Loops): Utilising `for` loops and the `range()` function to make code more efficient through repetition.

Physical Computing (Micro:bit): Integrating the random library and accelerometer gestures to create digital dice on a physical LED grid.

Applied Robotics (Maqueen): Using "Paired Programming" to code Maqueen robots to move autonomously and perform precise 90-degree turns.

How will I be assessed?

Assessment includes completing levels of Cyber Explorers and gaining the certification. Quizzes, and successful practical application of programming.

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How Computers Work: Students explore the physical and logical components of hardware. Understanding what defines a computer, binary representation of data (1s and 0s), circuits and logic, and the role of the CPU and Memory.

How the Internet Works: Exploring the infrastructure of the web. Including Understanding IP addresses, DNS, packets, routing, and the physical protocols (like wires and cables) that power the global internet.

Cyber Explorers: Students begin their journey with the **Cyber Explorers** platform, gaining an introduction to essential cybersecurity concepts and digital citizenship.

How will I be assessed?

You will be assessed through review assessments & quizzes.

Spring Term

What will I study?

How AI Works: Students will dive into the world of Artificial Intelligence using the **Code.org AI playlist**.

Learning Focus: Understanding Machine Learning, training data, the mechanics of Neural Networks, Computer Vision, and the ethical implications of algorithmic bias.

Continuing Cyber Explorers: Building on Autumn's foundation, students complete more advanced challenges in cyber security, learning how to protect networks and personal data.

Introduction to Block Coding: Using the **Code.org Express**

Course, students will master the logic of programming through a visual interface.

Learning Focus: Developing computational thinking through loops, conditionals, and events to solve complex puzzles.

Optional: Khan Academy Computational Thinking: Students may begin an advanced track focusing on how to break down complex problems into solvable steps.

Learning Focus: Decomposition, pattern recognition, abstraction, and algorithmic design using Python as the primary tool.

How will I be assessed?

Assessment includes a practical project within the Code.org Express Course, projects in Khan Academy and a review assessment covering the core concepts of AI and machine learning.

Summer Term

What will I study?

Python Programming Crash Course: A fast-paced transition to text-based programming, moving from basic syntax to physical computing and robotics.

The Data Vault: Capturing user input using `input()` and converting data types using `int()` to perform mathematical calculations.

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