



Belonging • Experiences • Aspirations • Teamwork • Honesty

Beath High School

S4>S5 and S5>S6 Learner Pathways

Design Faculty

2020-21





Introduction

S4 and S5 pupils are now considering their Learner Pathway as they move towards their S5/S6 at Beath High School. From the full range of courses on offer, pupils are required to choose five different subjects to study during third year. In addition, current S4 and S5 pupils will continue with their current NPA course as they move into S5 and S6 in 2020-21.

To ensure that learners have as much information and guidance as possible, and in addition to all of the general advice given in Personal and Social Education classes, we provide pupils with an individual interview with their Guidance teacher.

A significant amount of work has been done to review our curriculum offer to deliver our curriculum rationale:

The Beath curriculum is designed to encourage the learning and development of all of our young people. Our curriculum allows learners to achieve their true potential through flexible pathways to success. Personalisation ensures that the needs of all learners are met. Our young people gain a portfolio of qualifications, experiences and skills from our curriculum. We utilise partnership working and we focus on improving attainment and achievement. Our learners are supported into a robust and sustained positive destination.

If you have any further questions, please do not hesitate to make contact with the school.





DESIGN FACULTY

• Practical Wood	N4	Page 4
• Practical Wood	N5	Page 5
• Practical Metal	N5	Page 6
• Design & Manufacture	N4	Page 7
• Design & Manufacture	N5	Page 8
• Design & Manufacture	Higher	Page 9
• Design & Manufacture	Advanced Higher	Page 10
• Graphic Communication	N4	Page 11
• Graphic Communication	N5	Page 12
• Graphic Communication	Higher	Page 13
• Graphic Communication	Advanced Higher	Page 14
• Art and Design	N4	Page 15
• Art and Design	N5	Page 16
• Art and Design	Higher	Page 17
• Art and Design	Advanced Higher	Page 18
• Photography	Higher	Page 19



Subject: Practical Wood N4

Entry Level:

Preferable to have taken this subject at least in S3 for better progression.

Course Structure and Content:

The course consists of three mandatory units and an added value unit.

- **Flat Frame Construction,**
- **Carcase Construction**
- **Machining & Finishing.**

An added value unit must also be completed for a full course award.

The course is mainly practical based and allows learners to gain experience and knowledge of reading working drawings/diagrams, and plan activities to successfully complete finished artefacts. The course is designed to ensure that learners acquire the necessary skills in woodworking techniques, marking out, cutting, shaping and finishing materials. Learners will also gain knowledge of sustainability issues within the practical woodworking context.

Assessment:

Assessment is ongoing and internally verified.

The three units – Flat Frame Construction, Carcase Construction and Machining & Finishing allow pupils to gain necessary skills/knowledge to attempt the added value unit - Making a Finished Product from Wood.

All units are internally assessed throughout the course and lead on to the final Added Value Unit.

The Added Value Unit is graded at either a pass or fail at National 4 level and is internally verified.

During the course learners will utilise tools and machinery in a workshop environment. They will be expected, **at all times**, to act responsibly, co-operate with their peers as and when required and also to follow recognised, safe working practices. Following recognised procedure and safe working practices is a requirement which has to be demonstrated, throughout the course, (as stipulated by SQA) in order to gain any qualification.



Subject: Practical Wood N5

Entry Level:

Practical Wood at National 4 Level preferable.

Course Structure and Content:

As with N4, the N5 course is practical and allows learners further experience of reading working drawings/diagrams and planning activities to successfully complete increasingly complex finished artefacts. The course is designed to develop and hone the necessary skills in woodworking techniques, marking out, cutting, shaping and finishing materials. Learners will also gain knowledge of sustainability issues within the practical woodworking context. Learners will be expected to work to close tolerances when manufacturing artefacts, and with less support, than at N4.

As with N4, a proportion of the time in the workshop will be spent on theory work to increase candidate confidence in communicating information, reading working drawings and materials knowledge.

The course consists of three mandatory units and an Assessment Task:

- **Flat Frame Construction,**
- **Carcase Construction**
- **Machining & Finishing.**

Assessment:

The course consists of three mandatory units and a course assessment in the form of a practical project.

The three units – **Flat Frame Construction, Carcase Construction** and **Machining & Finishing** allow pupils to gain necessary skills/knowledge to attempt the final Assessment Task. This will be assessed and the final grade (A-D) will be based on this. There is also a written exam at the end of the course which is externally marked.

During the course learners will utilise tools and machinery in a workshop environment. They will be expected, **at all times**, to act responsibly, co-operate with their peers as and when required and also to follow recognised, safe working practices. Following recognised procedure and safe working practices is a requirement which has to be demonstrated, throughout the course, (as stipulated by SQA) in order to gain any qualification.



Subject: Practical Metal N5

Entry Level:

S6 Pupil and/or N5 Practical Woodworking

Course Structure and Content:

The N5 Metalworking course is practical and allows learners further experience of reading working drawings/diagrams and planning activities to successfully complete increasingly complex finished artefacts. The course is designed to develop and hone the necessary skills metalworking techniques, marking out, cutting, shaping and finishing materials. Learners will be expected to work to close tolerances when manufacturing artefacts and will gain experiences in a range of different metalworking machinery.

A proportion of the time in the workshop will be spent on theory work to increase candidate confidence in communicating information, reading working drawings and materials knowledge.

The course consists of three mandatory units and an Assessment Task:

- **Bench Skills**
- **Fabrication and Thermal Joining**
- **Machine Processes**

Assessment:

The course consists of three mandatory units and a course assessment in the form of a practical project.

The three units – **Bench Skills**, **Fabrication and Thermal Joining** and **Machine Processes** allow pupils to gain necessary skills/knowledge to attempt the final Assessment Task. This will be assessed and the final grade (A-D) will be based on this. There is also a written exam at the end of the course which is externally marked.

During the course learners will utilise tools and machinery in a workshop environment. They will be expected, **at all times**, to act responsibly, co-operate with their peers as and when required and also to follow recognised, safe working practices. Following recognised procedure and safe working practices is a requirement which has to be demonstrated, throughout the course, (as stipulated by SQA) in order to gain any qualification.



Subject: Design and Manufacture N4

Entry Level:

Preferable to have taken this subject at least in S3 for better progression.

Course Structure and Content:

Creativity is at the heart of this Course— and its combination with technology makes it exciting and dynamic. The Course introduces learners to the diverse world of product design and manufacturing giving them the opportunity to experience the rolls of Client, Designer and Manufacturer.

The course is split into two Units:

- **Design**
- **Materials and Manufacturing.**

The course enables pupils to explore everyday products, learn about the factors that influence design and develop their imagination, logical thinking and reasoning skills. Pupils will have the opportunity to learn about design and materials by sketching, modelling, testing and manufacturing products.

Assessment:

The units allow the pupils to acquire the necessary skills and knowledge to complete the final Added Value unit at National 4. All units must be completed to receive the course award. Unit assessments will include examples of a range of research tasks, design tasks and manufactured items.

The assessed **Added Value Unit** introduces challenge and application in a real-life context. Pupils draw on their range of knowledge and skills in order to produce an effective overall response to a brief. The brief will relate to a product design scenario. The response will include a folio, a model, or a prototype, or a completed product which is internally assessed.

All Units and the Added Value Unit must be passed in order to achieve the full National 4 award.



Subject: Design and Manufacture N5

Entry Level:

Design and Manufacture at National 4 Level preferable.

Course Structure and Content:

Creativity is at the heart of this Course—and its combination with technology makes it exciting and dynamic. The Course introduces learners to the diverse world of product design and manufacturing giving them the opportunity to experience the rolls of Client, Designer and Manufacturer.

The course is split into two Units:

- **Design**
- **Materials and Manufacturing.**

The course enables pupils to explore everyday products, learn about the factors that influence design and develop their imagination, logical thinking and reasoning skills. Pupils will have the opportunity to learn about design and materials by sketching, modelling, testing and manufacturing products.

Assessment:

The units allow the pupils to acquire the necessary skills and knowledge to complete the final Design Assessment task at National 5. All units must be completed to receive the course award. Unit assessments will include examples of a range of research tasks, design tasks and manufactured items.

At national 5 pupils will complete a **Design Assignment** and **Question Paper**. Learners will draw on their range of knowledge and skills and apply practical skills, in order to produce an effective overall response to a set brief. The response will include a folio and a manufactured prototype. The question paper introduces breadth to the assessment. It requires depth of understanding and application of knowledge from the Units.

All Units, the Design Assignment and the theory exam all must be passed in order to achieve the full National 5 award.

The Design Assignment and the written theory exam are externally marked by the SQA and combine to provide the final grade.



Subject: Design and Manufacture Higher

Entry Level:

A-C pass at National 5 Design and Manufacture

Course Structure and Content:

Creativity is at the heart of this Course— and its combination with technology makes it exciting and dynamic. The Course introduces learners to the diverse world of product design and manufacturing giving them the opportunity to experience the rolls of Client, Designer and Manufacturer.

The course is split into two Units:

- **Design**
- **Materials and Manufacturing.**

These units are delivered using an integrated approach based on a range of different projects.

The course enables pupils to explore everyday products, learn about the factors that influence design and develop their imagination, logical thinking and reasoning skills. Pupils will have the opportunity to learn about design and materials by sketching, modelling, testing and manufacturing products.

Assessment:

The units allow the pupils to acquire the necessary skills and knowledge to complete the final Design Assessment task at National 5. All units must be completed to receive the course award,

The final course assessment consists of two components:

Question Paper

The question paper introduces breadth to the assessment. It requires depth of understanding and application of knowledge from the Units.

Design Assignment

Learners will draw on their range of knowledge and skills and apply practical skills, in order to produce an effective overall response to a set brief. All Units, the Design Assignment and the theory exam all must be passed in order to achieve the full National 5 award.

The Design Assignment and the written theory exam are externally marked by the SQA and combine to provide the final grade.



Subject: Design and Manufacture Advanced Higher

Entry Level:

Pass at Higher Design and Manufacture
Preferred entry: A or B pass at Higher

Course Structure and Content:

The Advanced Higher Graphic Communication Course offers a broad and creative experience in the subject of Design and Manufacture.

This course has three mandatory Units

- **Product Evolution**
- **Product Development**
- **Product Analysis**

Pupils are encouraged to exercise imagination, creativity and logical thinking in a project-based course where they will develop an awareness of design, materials and manufacturing.

Content of Product Evolution

- Research factors that have influenced the evolution of the design and manufacture of a selected commercial product
- Investigate the impact of new and emerging technologies on the evolution of the design and manufacture of a selected commercial product

Content of Product Development:

- Identify and respond to a design opportunity
- Create and evaluate a design proposal

Content of Product Analysis:

- Analyse the performance of a commercial product
- Analyse the production of a commercial product
- Analyse the impact of a product

Assessment:

The Course assessment of the Advanced Higher Design and Manufacture Course consists of three components:

- Unit Tasks
- Question Paper
- Design Project Folio

The Question Paper and Design Project Folio are externally assessed by the SQA and combine to calculate the overall grade.



Subject: Graphic Communication N4

Entry Level:

Preferable to take this subject in S3 for better progression.

Course Structure and Content:

This Course is a broad-based qualification suitable for learners with an interest in graphic communication — both digital and paper-based. The course offers personalisation and choice for each learner as the world of graphic communication covers such a wide variety of styles and modes of communication.

Creativity is at the heart of this Course— and its combination with technology makes it exciting and dynamic. The Course introduces learners to the diverse world of Graphic Communication giving them the opportunity to experience roles of CAD Technician, Graphic Designer, Design Engineer and Architect.

The course is split into two Units:

- **2D Graphics**
- **3D Graphics**

The units, 2D and 3D, allow the pupils to learn through career-based projects including Architecture, interior design, CAD/CAM Manufacture, Web and Packaging design. Learners will develop design skills, including creativity; an understanding of the impact of graphic communication technologies on our environment and society; and spatial awareness and visual literacy

Assessment:

The units allow the pupils to acquire the necessary skills and knowledge to complete the final Added Value unit at National 4. All units must be completed to receive the course award. Unit assessments will include examples of a range of research tasks, design tasks and manufactured items.

The assessed **Added Value Unit** introduces challenge and application in a real-life context. Pupils draw on their range of knowledge and skills in order to produce an effective overall response to a brief. The brief will relate to graphic scenario. The response will include a 6-page A3 folio.

All Units and the Added Value Unit must be passed in order to achieve the full National 4 award.



Subject: Graphic Communication N5

Entry Level:

N4 Graphic Communication

Course Structure and Content:

This Course is a broad-based qualification suitable for learners with an interest in graphic communication — both digital and paper-based. The course offers personalisation and choice for each learner as the world of graphic communication covers such a wide variety of styles and modes of communication.

Creativity is at the heart of this Course— and its combination with technology makes it exciting and dynamic. The Course introduces learners to the diverse world of Graphic Communication giving them the opportunity to experience roles of CAD Technician, Graphic Designer, Design Engineer and Architect.

The course is split into two Units:

- **2D Graphics**
- **3D Graphics**

The units, 2D and 3D, allow the pupils to learn through career-based projects including Architecture, interior design, CAD/CAM Manufacture, Web and Packaging design. Learners will develop design skills, including creativity; an understanding of the impact of graphic communication technologies on our environment and society; and spatial awareness and visual literacy

Assessment:

The units allow the pupils to acquire the necessary skills and knowledge to complete the final Design Assessment task at National 5. All units must be completed to receive the course award.

At national 5 pupils will complete a **Graphics Assignment** and **Question Paper**. Learners will draw on their range of knowledge and skills and apply graphic skills, in order to produce an effective overall response to a set brief. The response will include a ten-page A3 folio. The question paper introduces breadth to the assessment. It requires depth of understanding and application of knowledge from the Units.

All Units, the Graphics Assignment and the theory exam all must be passed in order to achieve the full National 5 award.

The Graphics Assignment and the written theory exam are externally marked by the SQA and combine to provide the final grade.



Subject: Graphic Communication Higher

Entry Level:

Pass at N5 Graphic Communication

Course Structure and Content:

The Higher Graphic Communication Course offers a broad and creative experience in the subject of graphic communication and graphic design.

Pupils are encouraged to exercise imagination, creativity and logical thinking in a project-based course where they will develop an awareness of graphic communication as an international language.

There are 2 units within the Higher Course; 2D Graphic Communication Unit and 3D & Pictorial Graphic Communication Unit.

2D Graphic Communication

In this Unit pupils will:

1. Produce and interpret 2D orthographic sketches and drawings
2. Produce 2D computer-aided designed drawings
3. Produce preliminary 2D designs and illustrations for multi-page promotional documents
4. Create multi-page 2D promotional publications

3D & Pictorial Graphic Communication

In this Unit pupils will:

- Produce and interpret pictorial sketches and drawings
- Produce 3D computer-aided designed models and associated production drawings
- Produce pictorial and 3D illustrations of geometric forms and everyday objects

Plan and produce pictorial and/or 3D models for promotional purposes

Assessment:

The Higher Graphic Communication course has 2 assessments, both set by the SQA, that are accumulated to provide the final award.

- Assignment
- Question Paper

The question paper will require learners to demonstrate aspects of breadth and application in a graphic context, based on recognised graphic principles and those used in industry.

The assignment will require the learner to produce practical responses to a graphics situation. This will allow the learner to confirm their capabilities through challenge and application.



Subject: Graphic Communication Advanced Higher

Entry Level:

Pass at Higher Graphic Communication
Preferred entry: A or B pass

Course Structure and Content:

The Advanced Higher Graphic Communication Course offers a broad and creative experience in the subject of graphic communication and graphic design.

Pupils are encouraged to exercise imagination, creativity and logical thinking in a project-based course where they will develop an awareness of graphic communication as an international language.

There are 2 units within the Advanced Higher Course; Technical Graphics and Commercial and Visual Media Graphics.

Content of Technical Graphics:

- Computer Aided Design, Graphic Types and Techniques,
- Drawing standards, protocols and conventions
- Computer-aided illustration
- Planning drawing
- Simulation
- CAD CAM systems
- Technical graphic file formats and their use
- Issues of ownership

Content of Commercial and Visual Media Graphics:

- Desktop publishing
- Graphic media file formats and their use
- Design elements and principles
- Graphics technologies
- Animation

Assessment:

The Course assessment of the Advanced Higher Graphic Communication Course consists of three components:

- Unit Tasks
- Question Paper
- Project Folio

The Question Paper and Project Folio are externally assessed by the SQA and combine to calculate the overall grade.



Subject: Art and Design N4

Entry Level:

Preferable to take this subject in S3 for better progression.

Course Structure and Content:

Pupils will undertake two main practical projects in S4, one Design and one Expressive. For each of these projects' pupils will also learn about related artists and designers to help them develop their own skills as well as an understanding of Art & Design issues.

Expressive Unit: This project will be either in 2D or 3D and will explore a range of techniques from observational drawing, working with paint, to using clay. The unit may be based on Still Life or Portraiture and a personal response will be encouraged. Pupils will research a theme, develop compositional ideas relating to this and produce a high-quality final outcome. Significant historic and contemporary artists will be introduced to inspire and contextualise art practice.

Design Unit: Again, this project will be in either 2D or 3D, and pupils will experiment working with a variety of materials and media. The context of the project could be jewellery, fashion or graphic design and pupils will be encouraged to follow the creative process to create an eye-catching final outcome based on their research and ideas. Relevant contemporary and historic designers will be researched to develop an understanding of designers and the key issues they face

Assessment:

Expressive Unit: Pupils will create a folio from their Expressive project which will be internally assessed and will pass when they meet all of the criteria set by SQA.

Design Unit: Pupils will create a folio from their Design project which will be internally assessed and will pass when they meet all of the criteria set by SQA.

National 4 is graded as Pass or Fail and is moderated by the SQA.



Subject: Art and Design N5

Entry Level:

N4 Art and Design or a high standard of work from S3.

Course Structure and Content:

Pupils will undertake two main practical projects in S4, one Design and one Expressive. For each of these projects' pupils will also learn about related artists and designers to help them develop their own skills as well as an understanding of Art & Design issues.

Expressive Unit: This project will be either in 2D or 3D and will explore a range of techniques from observational drawing, working with paint, to using clay. The unit may be based on Still Life or Portraiture and a personal response will be encouraged. Pupils will research a theme, develop compositional ideas relating to this and produce a high-quality final outcome. Significant historic and contemporary artists will be introduced to inspire and contextualise art practice.

Design Unit: Again, this project will be in either 2D or 3D, and pupils will experiment working with a variety of materials and media. The context of the project could be jewellery, fashion or graphic design and pupils will be encouraged to follow the creative process to create an eye-catching final outcome based on their research and ideas. Relevant contemporary and historic designers will be researched to develop an understanding of designers and the key issues they face.

There is a written exam as part of this course.

Assessment:

Portfolio: After successfully completing the Expressive and Design projects, pupils will create a folio of selected work to be submitted to the SQA.

Question Paper: There will be a short question paper set by the SQA, completed under exam conditions. This will test the pupil's understanding of the selected artists and designers, and key art & design issues.

National 5 is graded A-D



Subject: Art and Design Higher

Entry Level:

Art and Design N5 A-C grade

Course Structure and Content:

As with National 4 and 5 at Higher there are two units:

- Design
- Expressive

However, the level of skill and need for independence increases.

Design Unit

Candidates will study in the context of jewellery, fashion or graphic design. They will experiment working with a variety of materials and media to create an eye-catching final outcome. Independent research into relevant contemporary and historic designers will develop an understanding of designers and the key issues they face.

Expressive Unit

Candidates will explore a range of techniques from observational drawing, working with paint, to using clay. The unit may be based on Still Life or Portraiture and a personal response will be encouraged. Independent research into significant historic and contemporary artists will be used to inspire and contextualise art practice.

Assessment:

Portfolio: After successfully completing the Expressive and Design projects, pupils will create a folio of selected work to be submitted to the SQA.

Question Paper: There will be a question paper set by the SQA, completed under exam conditions. This will test the pupil's understanding of the selected artists and designers, and key art & design issues.

Higher is graded A-D



Subject: Art and Design Advanced Higher

Entry Level:

Higher Art and Design grade A-C

Course Structure and Content:

Course Overview

Candidates can select Advanced Higher Design or Expressive.

Candidates opt to specialise in any area and will choose a personal theme to explore within this context. They will also undertake either a minor practical project in the other area, or a critical assignment. The themes will be agreed with the teacher to ensure suitability for breadth and depth of ideas. The course encourages experimentation and increases confidence working in a wide variety of materials and media.

Assessment:

Work is reviewed continually throughout the year with the teacher and the department. Candidates need to work with greater independence but will be informed on a regular basis as to whether they are on target to achieve their potential. The completed portfolio is submitted to the SQA for assessment and the final mark is based on this.

As part of the course there is an essay which is also submitted for marking.



Subject: Higher Photography

Entry Level:

Recommended Entry: Preferably a pass at N5 and English. Some allowances may be made for those who have not studied Art & Design, although this is at the discretion of the department and would be decided on an individual basis.

Course Structure and Content:

Through a number of small projects pupils will gain an understanding of digital camera techniques. They will then use this knowledge to complete a larger research project in photography. In discussion with the teacher candidates will select a brief, which is then developed in photography, resulting in a portfolio in colour or black and white images based on the chosen theme.

Pupil will be taught all aspects of the camera, importing images into the computer and manipulating these in photo shop. The history of photography will be discussed, and pupils will study a wide range of photographic artists and their work.

At the end of the course pupils will be competent in digital imaging, photo reportage, Photoshop and printing.

There is a question paper for this course.

Assessment:

The research project is compiled into a portfolio which is sent to the SQA for assessment. This will be in the form of photo test strips, notes on exposure, camera aperture and a final presentation of twelve A4 images. An extended brief will also be written in class, and there is an evaluation at the end of the project which is completed under exam conditions. These will also be submitted to the SQA for assessment to support the practical work.

The question paper is externally marked and become a component mark towards the final grades of A-D.

