Dingwall Academy
S2 Course Options

National Computing

Business Management

Admin & IT

We also offer a combined course over the two years where you can Gain a Level 5 National Progression Award in Digital Media & Games Development.

Both these courses are evidence based and you complete a folio of tasks in order to achieve the award.   There is NO FINAL EXAM, but you must complete ALL folio tasks.

Digital Media

Games Development

Computing Science National 3, 4 & 5

What will I study?

Software Design and Development where pupils will explore different programming environments and learn computational thinking techniques. They will learn about a range of programming constructs and how to design and develop solutions to problems.

Database Design and Development where pupils will design and create databases and explore the functions of database software (including the use of SQL at National 5 and Higher).

Web Design and Development where pupils will learn about the purpose and functionality of different websites. They will design and create their own websites using both HTML code and web authoring software.

Computer Systems where pupils will learn about technical implications, computer structure, data representation, security precautions and environmental impact.

What skills will I develop?

Pupils will develop a range of ICT skills and the confidence and ability to explore a wide range of software.

They will develop skills in planning and creativity when designing and building digital solutions to problems.

Problems solving skills and computational thinking will be enhanced.

Program language concepts and experience of more than one programming language.

Skills in relation to both team work and working independently.

How will I be assessed?

National 5 pupils complete an assignment in school and sit a final exam. Both of these are sent away to be marked.

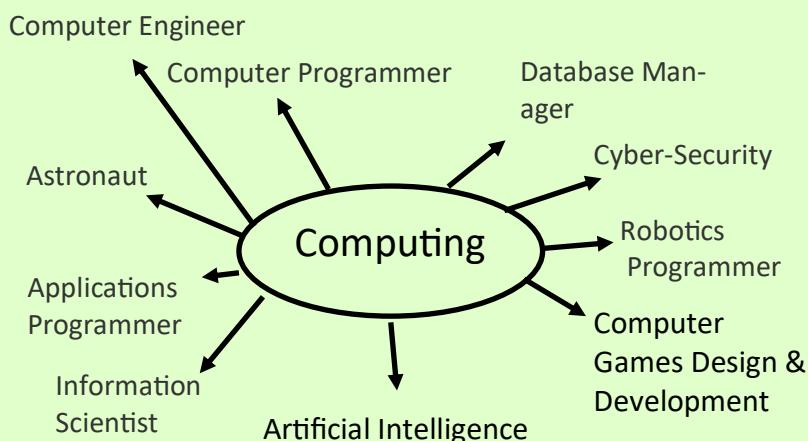**National 3 and 4** units are assessed in school by your class teacher.

What can I go on and study in fifth and sixth year?

National 3 → National 4 Computing, NPA Level 4 Games Design & Development
National 4 → National 5 Computing, NPA Level 5 Games Design & Development
National 5 → Higher Computing

Possible Careers

Computer Engineer
Computer Programmer
Database Manager
Cyber-Security
Robotics Programmer
Astronaut
Computing
Applications Programmer
Computer Games Design & Development
Information Scientist
Artificial Intelligence

Need more info? -

Nationals in a Nutshell

Administration & IT National 3, 4 & 5

What will I study?

There are 2 units of study:

1. <u>Administration theory in the workplace</u>. Pupils will learn about customer service, importance of corporate image, health and safety of employees (including current legislation), security of property, people and information in the workplace, benefits and consequences of reliable and unreliable sources on-line, file management, tasks and qualities of an admin assistant, on-line communication sources.

2. <u>IT Applications</u>: word processing, desk top publishing, spreadsheets, databases, presentation software, electronic diary, E-mail (in the workplace), searching, extracting and downloading relevant information from the internet and intranet.

What skills will I develop?

- Skills for learning, life and work.
- Employability, enterprise, citizenship.
- IT skills in word processing, spreadsheets, databases, presentations, desktop publishing in familiar and some unfamiliar contexts.
- The ability to use IT skills in more complex administrative tasks.
- Organisational skills in the context of organising and supporting events.
- The ability to use technology appropriately for communication and investigation in familiar and some unfamiliar contexts.
- Skills in organising, processing and communicating information in largely familiar contexts.
- Problem-solving, team-working and using initiative.
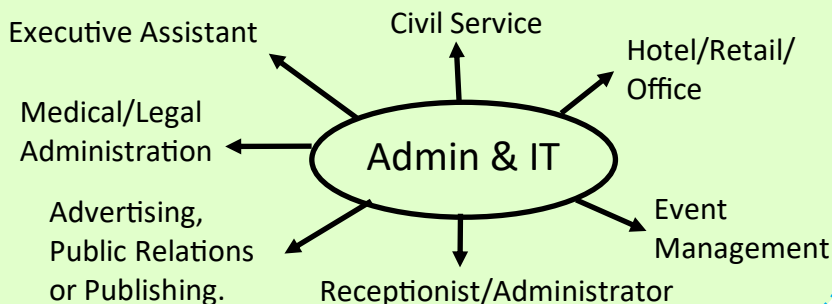- Thinking skills.
- Numeracy.

How will I be assessed?

National 5 pupils will sit an SQA exam. Pupils will be tested on their ICT skills, Administration theory and problem solving ability. Pupils will also complete an assignment in school. Both assessments are marked externally by SQA.

National 3 and 4 units are assessed in school by your class teacher.

What can I go on and study in fifth and sixth year?

National 3 → National 4 Admin & IT
National 4 → National 5 Admin & IT
National 5 → Higher Admin & IT or another National 5 subject such as: Business Management or Computing Studies. It may be an option to choose Higher Business Management or Higher Accounting & Finance but this must be discussed with Mrs Robertson.

Possible Careers

Executive Assistant

Civil Service

Hotel/Retail/Office

Medical/Legal Administration

Admin & IT

Advertising, Public Relations or Publishing.

Receptionist/Administrator

Event Management

Need more info? -

Nationals in a Nutshell

Computer Games Development
NPA Level 4 & 5

What will I study?

The NPAs in Computer Games Development at SCQF levels 4, 5 introduce learners to the genres, trends and emerging technologies of the computer games industry. This suite of awards provides a foundation in techniques that are important to the sector such as digital planning and design, creation of media assets, and development and testing — while also developing employability skills and Core Skills through enterprise activities.

The course is split into three units:

- **Design**
- **Development**
- **Media Assets**

What skills will I develop?

Pupils will develop a range of ICT skills and the confidence and ability to explore a wide range of software including games development software.

They will develop skills in planning and creativity .

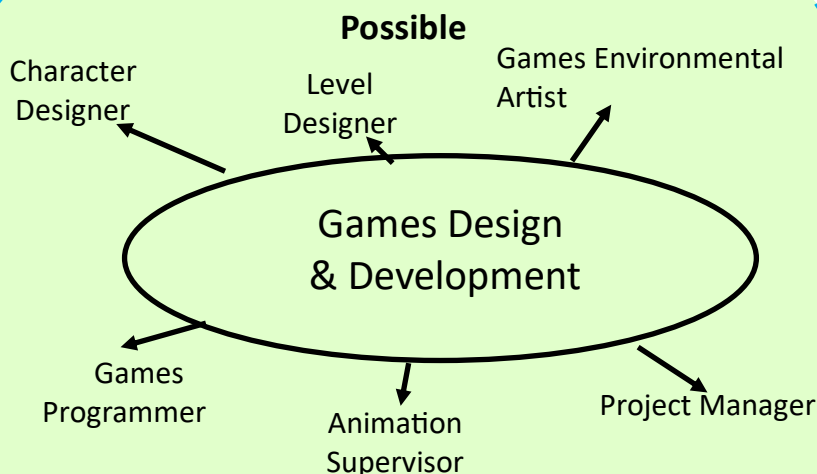Computational thinking skills when building digital solution and developing games.

They will gain an understanding of teamwork and the roles available in the Games Industry.

How will I be assessed?

This course is assessed using a portfolio approach. Students will build evidence completing tasks as they progress through the units.

All activities must be completed in order to meet the assessment standards and gain overall course award.

There is no final exam

Possible

Character Designer

Level Designer

Games Environmental Artist

Games Design & Development

Games Programmer

Animation Supervisor

Project Manager

Learners may progress to HN Units and/or awards in Computing at SCQF level 6, 7 or above, at College.

Need more info? -

www.sqa.org.uk

What will I study?

Unit 1 covers the role of business in society, the types of business organisations, their objectives, entrepreneurs and business planning.

Unit 2 deals with everything which has an influence on a business, such as internal and external stakeholders, internal factors and external factors.

Unit 3 looks at market research and market segmentation, the marketing mix including product life cycle, pricing and branding.

Unit 4 includes the purchasing mix, inventory management, production methods, quality, the role of technology as well as ethical and environmental issues.

Unit 5 is concerned with types of employment, recruitment and selection, training, appraisal, motivation, employment legislation, and industrial relations.

Unit 6 looks at sources of finance, cash budgets, calculating profit or loss and calculating the break-even point.

What skills will I develop?

Business Management pupils will:

- learn to appreciate the causes and effects of economic and other external changes
- gain an understanding of organisational behaviour
- be able to make informed choices as consumers
- learn to understand how businesses make decisions, improving their own decision making skills
- improve the ability to research, interpret and use business and financial data
- develop a creative approach to problem solving
- understand the importance of team working skills
- develop self-reliance, initiative and the ability to manage time, projects and resources
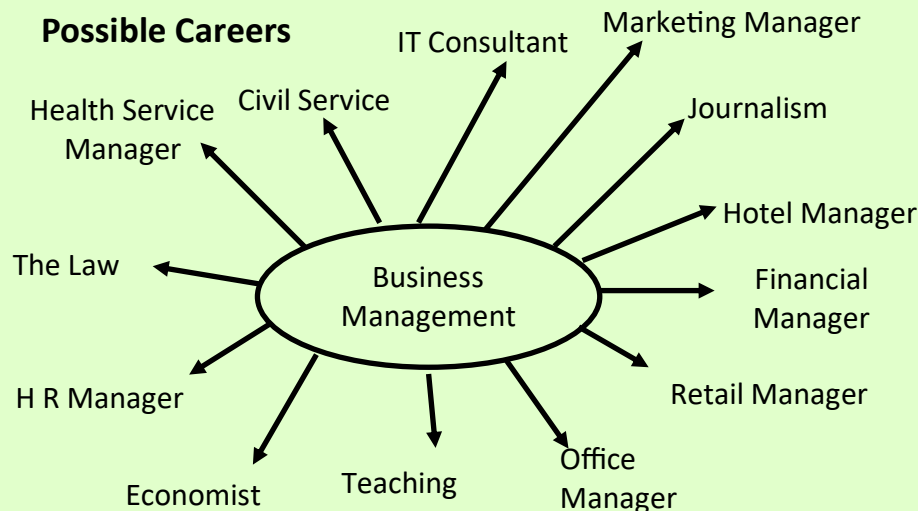
How will I be assessed?

National 5 pupils will conduct research on a business of their own choice and write a report about their findings. They will also sit a final exam in the exam hall.

National 4 pupils will also complete a report on a business of their own choice. They will be assessed in class by their teacher.

What can I go on and study in fifth and sixth year?

National 4 → This will lead to the National 5 course.

National 5 → This will lead to the Higher Business Management course.

Possible Careers

Health Service Manager · Civil Service · IT Consultant · Marketing Manager · Journalism · The Law · Hotel Manager · Financial Manager · H R Manager · Retail Manager · Economist · Teaching · Office Manager

Business Management

Need more info? -

[Nationals in a Nutshell](#)

Digital Media NPA Level 4 & 5

What will I study?

The NPAs in Digital Media at SCQF levels 4 and 5 introduce learners to techniques that are important in the digital media sector, such as audio, still images and moving images. In addition to developing knowledge and understanding of digital media, learners will develop practical, technical and transferable skills - including oral, written and evaluation abilities — while also developing employability skills and Core Skills through enterprise activities.

The course is split into three units:

- **Audio**
- **Moving Images**
- **Still Images**

What skills will I develop?

Pupils will develop a range of ICT skills and the confidence and ability to explore a wide range of software including animation and movie making software.

They will develop skills in planning and creativity.

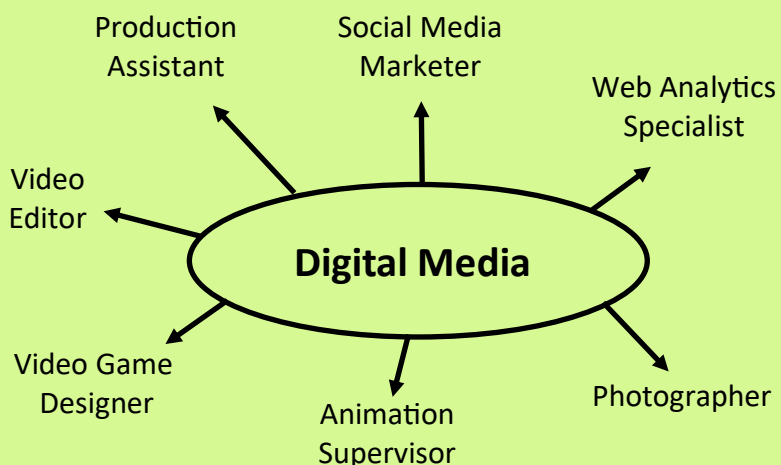They will develop computational thinking skills when building digital solutions.

How will I be assessed?

This course is assessed using a portfolio approach. Students will build evidence completing tasks as they progress through the units.

All activities must be completed in order to meet the assessment standards and gain overall course award.

There is no final exam

Possible Careers

Production Assistant

Social Media Marketer

Web Analytics Specialist

Video Editor

Digital Media

Video Game Designer

Animation Supervisor

Photographer

Learners may progress to HN Units and/or awards in NPA Digital Media at SCQF level 6, 7 or above, at College.

Need more info? -

www.sqa.org.uk