

## Live Zoom TY Programmes - Coding, Computer Science, Cyber Safety & Digital Citizenship

*“Transition Year is about exposing students to career options”*

Dear TY,

Transition Year is about students maturing whilst exploring and experiencing areas and topics which may aid them with the subject and career paths. We provide **Exciting 21<sup>st</sup> Century TY Taster Programmes** designed to allow students to experience Coding, Computer Science and Digital Citizenship. We do have some capacity remaining in this academic year. And hope you would consider it whilst planning for the following academic year

### Programme Listing, Format Options & Pricing

**Option 1** – Price €285 – Duration 3 hours (consecutive) Via Zoom

**Option 2** – Price €85 per class (40 to 60 mins – scheduled) Via Zoom (6 to 8 weeks)

**Option 3** – Day Price and Travel Distance (Wexford Based) are considered. – Live in Person

All programmes are delivered via Zoom, led by a live tutor.

**Hardware:** Camera and Microphone (Not essential but will enhance the experience)

### Transition Year - Taster Programme Options:

1. Introduction to Computer Science Workshop – Coding with Scratch (Computer Lab Required)
2. An Introduction to HTML & CSS Post-Primary – Building Web Pages (Computer Lab Required)
3. An Introduction to Python Programming – Real World (Computer Lab Required)
4. Cyber Safety & Digital Citizenship Programme (Lab not required. As many classes as you wish, can attend this programme at the same time)

See programme details below:

#### Introduction to Computer Science Workshop – Coding with Scratch

- Presentation (Overview of Workshop)
- Resources – YouTube for Education & Educational Website Usage.
- How to keep your Laptops and PC clean and safe.
- Anti-Virus SW, Updates, Disk Clean-up, What are the elements of your laptop.
- Discuss how to align material with department specification requirements.
- Computing – OS, HW, & SW. Computing and Coding through CS Unplugged (Paper Exercises).
- JC Short Coding Course – Roadmap, resources and walkthrough.
  - Binary
  - Encryption
  - Exercise
- Coding through Scratch – Practicals

#### An Introduction to HTML & CSS Post-Primary – Building Web Pages

- How to use Notepad++, Sublime Text 3 & Trinket.
- Understanding how website works.
- Understanding the difference between The Internet & The Web.
- File Transfer Protocol (FTP), what is it? what does it do?

- Introduction to HTML & CSS.
- Developing Web pages.
- Syllabus navigation & exploration.
- Exploring useful HTML & CSS websites.

### **An Introduction to Python Programming – Real World**

- How to use Python IDLE & Interface & Environment.
- Using Turtle Graphics.
- Understanding Variables & Numbers.
- Loops. While Repeat (For) & Nested.
- Conditions & Boolean Logic.
- Functions.

### **Cyber Safety & Digital Citizenship Programme**

#### **Learning Objectives:**

1. Become aware and familiar with the New Online Irish Law – *“Harassment, Harmful Communications and Related Offences Act 2020”* Not understanding this law can now have detrimental effects.
2. To understand all aspects of Digital Citizenship:
  - a. Recognize potentially unsafe, dangerous online situations and behaviours.
  - b. Identify rules for avoiding hazardous, dangerous or risky online situations and behaviours.
  - c. Identify strategies to use when encountering potentially unsafe, difficult online conditions and behaviours.
3. To understand the fundamentals of academic writing.
  - a. Evaluate and justify information and ideas obtained from sources (e.g. articles or books). Plan and structure your **writing effectively**. **Use learning** strategies to continue to develop your academic writing ability. ... Produce writing with appropriate content for your discipline.

#### **Topics Covered:**

- Irish Law
- Digital Citizenship
- Pros and Cons of the Internet
- Online Platform Usage Etiquette
- Online Platform Correct Usage
- Digital Footprint
- Inappropriate Content
- Cyber Bullying
- Digital Stranger Danger
- Big Data
- Sextortion
- Device Usage & Social etiquette
- Catfishing
- Dangers Fake News

**Structure:**

The tutor will present and discuss each of the above topics live, where relevant students watch related and relevant clips to allow peer to peer discussion and topic contribution. Upon completing the said Cyber Safety area, the tutor will discuss the scope of academic writing, structure, rules, and source references. Show examples and provide resources.

**Programme Exercise:**

Students are requested to write a paper on one of the above topics, applying what they have learned about academic writing.

**Resources:**

Full use of the Cyber Safety clips for the remainder of the year – Great to revisit peer to peer discussion. Plus, an academic writing template and guide.

**Booking:**

We have a limited calendar available. If you would like your students to experience any of these programmes. Please send a reply email with your chosen dates and the programme titles, and if selecting “Option 2” the desired length of the programme. Guarantee your preferred dates, and book early.

Rgds,

Trevor Murphy, HDip MSc

Principal & Lead Mentor.

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<http://computingschools.ie/>

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