



The Duke of York Inspiring Digital Enterprise Award (iDEA) is an international programme aiming to help address the digital skills gap.

<https://idea.org.uk/>

Start is a comprehensive digital platform, offering school pupils a single starting point to help simplify and improve careers guidance in schools. By following Start's structured and progressive activities, the platform caters for all students helping them to make more informed decisions about future study and career options at the right time and in good time.

<https://www.startprofile.com/>

Year	Autumn Term	Spring Term	Summer Term
9	Computer Science Programming algorithms and evaluation examples: <ul style="list-style-type: none"> • Software development cycle • Testing and debugging • Program development • Effective coding • Evaluation ICT Functional Skills <ul style="list-style-type: none"> • Project based activities 	Computer Science Cryptography examples: <ul style="list-style-type: none"> • Encryption • Caesar Cipher • Hashing Artificial Intelligence examples: <ul style="list-style-type: none"> • What is AI • History of AI • AI developments 	Computer Science Boolean Logic and processing examples: <ul style="list-style-type: none"> • Fetch-Decode-Execute • History of computers • Boolean logic Computer Hardware examples <ul style="list-style-type: none"> • Essential components of a computer recap • The purpose of components

	Start Profile & Idea During the term pupils will work through their Start and Idea profiles.	Start Profile & Idea During the term pupils will work through their Start and Idea profiles.	Start Profile & Idea During the term pupils will work through their Start and Idea profiles.
10	ICT Functional Skills: PC Hardware and software examples: <ul style="list-style-type: none"> • What is in a computer? • How computers work? • What software to use for given tasks. • What is the purpose of an Operating System Start Profile & Idea During the term pupils will work through their Start and Idea profiles.	ICT Functional Skills: Networks and data representation examples: <ul style="list-style-type: none"> • Types of networks • Hardware requirements for different networks. • Binary additions • Image representation • Sound representation Start Profile & Idea During the term pupils will work through their Start and Idea profiles.	ICT Functional Skills: Types of memory and storage examples: <ul style="list-style-type: none"> • Purpose of Ram and Rom • Primary storage • Secondary storage • Data capacity and compression. Start Profile & Idea During the term pupils will work through their Start and Idea profiles.
11	ICT Functional Skills: Using ICT examples: <ul style="list-style-type: none"> • Planning and organising work • Using software to complete given tasks • Organising files effectively for projects. • The importance of virus protection and passwords. Start Profile & Idea During the term pupils will work through their Start and Idea profiles.	ICT Functional Skills: Finding and searching information examples: <ul style="list-style-type: none"> • What are search engines and browsers? • The importance of relevant and reliable information. • Meet the requirements of a given task using appropriate software. Start Profile & Idea During the term pupils will work through their Start and Idea profiles.	ICT Functional Skills: Presenting information examples: <ul style="list-style-type: none"> • Using email software • Enter, search and sort records • Checking information for accuracy and meaning. Start Profile & Idea During the term pupils will work through their Start and Idea profiles.

