BTEC Level 3 in Information Technology

Mr Tagliarini

Induction lesson

Learning objectives:

- ❑ To know the course content for Pearson BTEC Nationals AAQ Level 3 IT
- ❑ To know the expectations when taking IT at Haileybury Turnford

Title: BTEC Level 3 AAQ in IT

Learning objectives

- To know the course content for Pearson BTEC Nationals AAQ Level 3 IT
- To know the expectations when taking IT at Haileybury Turnford

Key words:

Expectations

Punctuality

Organisation

Scheme of Learning

Learning objectives:

- To know the course content for Pearson BTEC Nationals AAQ Level 3 IT
- To know the expectations when taking IT at Haileybury Turnford

Explanation

Course Description

This course is for students who are interested in learning about the Information Technology sector alongside other fields of study, with a view to progressing to a wide range of higher education courses, not necessarily in Information Technology-related subjects.

Learning objectives:

- ❑ To know the course content for Pearson BTEC Nationals AAQ Level 3 IT
- ❑ To know the expectations when taking IT at Haileybury Turnford

Explanation

What skills will you get?

You will:

- Gain knowledge of digital technologies and how organisations plan digital projects and follow a project lifecycle.
- Understand organisation structures and processes and how to embed digital safety to keep data and assets secure.
- Gain the technical skills to:
  - Design and build a website to meet user requirements using relevant tools and techniques, including testing for usability, functionality and fitness for purpose.
  - Follow a design methodology to create and develop a database design to meet user requirements, including testing the solution.
- Get transferable skills such as creativity and innovation, written communications, critical thinking and taking personal responsibility.

Learning objectives:

- ❑ To know the course content for Pearson BTEC Nationals AAQ Level 3 IT
- ❑ To know the expectations when taking IT at Haileybury Turnford

Explanation

Core Expectations for Every Lesson

1. **Attend lessons on time** and in **professional attire**
2. **Be prepared** for each lesson by ensuring you **bring the appropriate equipment**
3. Ensure **all work is organised** in the appropriate section of your subject folder
4. **All deadlines must be met** to avoid a 6 week "Risk of Failure" program
5. **Respect the classroom**, Replace chairs, Rubbish in bins
6. **Speak to ALL members of the HT community with respect**
7. **No mobile phones/AirPods** to be used in lessons or around the school
8. **Starters are to be completed in silence**
9. Be proactive and not reactive
10. ***Expect to work harder than you ever have before***

Learning objectives:

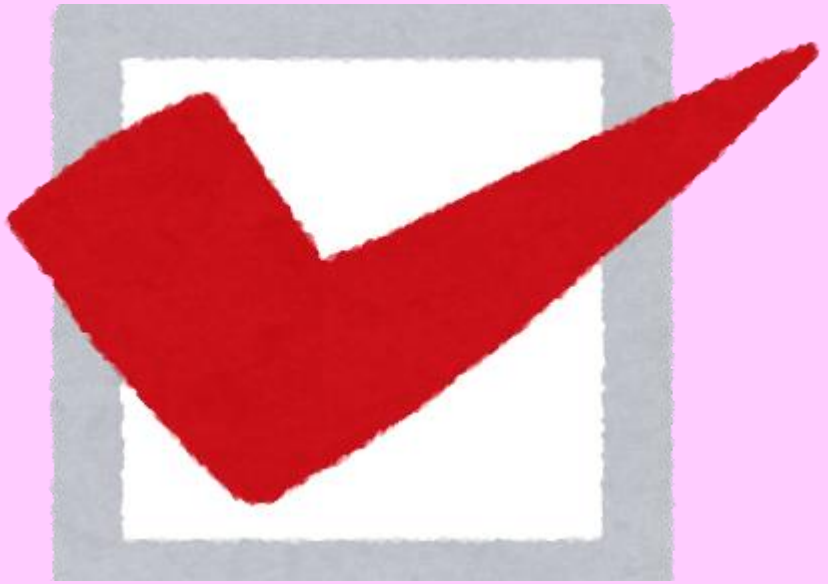
- ❑ To know the course content for Pearson BTEC Nationals AAQ Level 3 IT
- ❑ To know the expectations when taking IT at Haileybury Turnford

Explanation

Expectations

Missing Lessons

- Students are expected **to attend all lessons**.
- If there is a circumstance where this is completely necessary (e.g. medical appointments) students must speak to their teacher before the day to find out what they will be missing.
- They must write up lesson notes (borrowing them from another student) and present this to their teacher at the start of the following lesson. This includes time out of school because of illness.



Learning objectives:

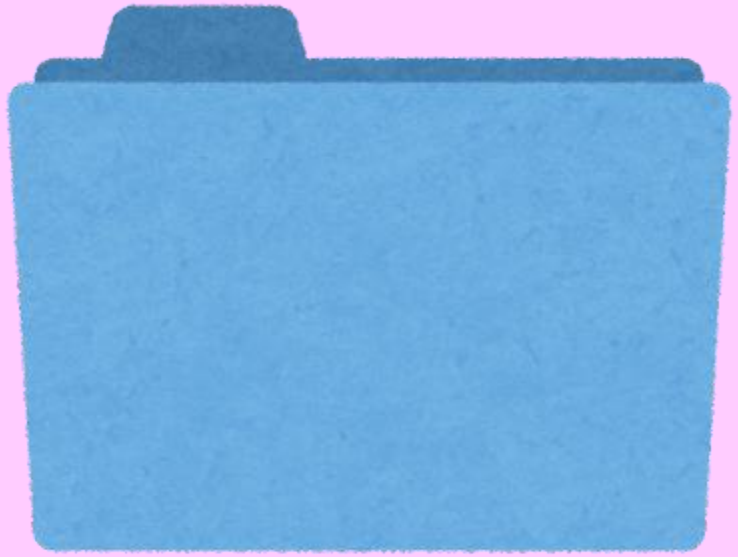
- ❑ To know the course content for Pearson BTEC Nationals AAQ Level 3 IT
- ❑ To know the expectations when taking IT at Haileybury Turnford

Explanation

Expectations

Standard Ways of Working

- You must **keep all of your coursework saved on the school network.**
- It is advisable to **backup your work on OneDrive** but this should be a secondary copy.
- When sending work, you need to send work **as an attachment** to your teachers.
- Anyone who loses work cannot be compensated with time.
- You are expected to keep your electronic documents in order, including using appropriate file names and a suitable folder structure.

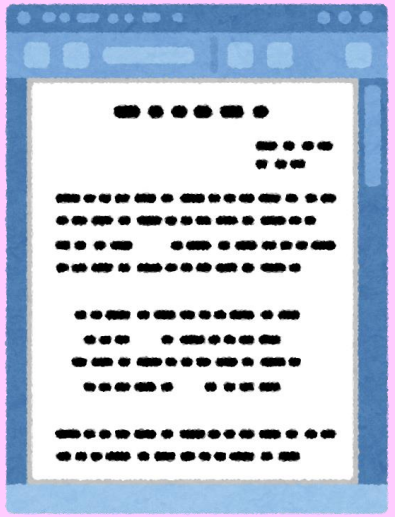


Learning objectives:

- ❑ To know the course content for Pearson BTEC Nationals AAQ Level 3 IT
- ❑ To know the expectations when taking IT at Haileybury Turnford

Explanation

Expectations



Equipment

- Microsoft 365 or Google Drive to produce written work and Presentations.
- Relational Database Management Software (RDBMS)
- A lever arch folder or ring binder folder for theory based work.

Visual Studio Code

Access

MariaDB

MySQL

Learning objectives:

- ❑ To know the course content for Pearson BTEC Nationals AAQ Level 3 IT
- ❑ To know the expectations when taking IT at Haileybury Turnford

Explanation

Expectations

Homework

Homework for BTEC ICT is often preparing for coursework and as such students should be aware that if they do not complete homework task that they will be disadvantaged when their coursework is submitted for marking.

Learning objectives:

- ❑ To know the course content for Pearson BTEC Nationals AAQ Level 3 IT
- ❑ To know the expectations when taking IT at Haileybury Turnford

Explanation

Units to be studied

Exams

Unit 1: Information Technology Systems

Unit 2: Cyber Security and Incident Management

Coursework

Unit 3: Website Developemt

Unit 4: Relational Database Development

Learning objectives:

- ❑ To know the course content for Pearson BTEC Nationals AAQ Level 3 IT
- ❑ To know the expectations when taking IT at Haileybury Turnford

Explanation

UNIT 1: Information Technology Systems
UNIT TYPE: Exam
EXAM LENGTH: 2 hours

Unit in brief

Students will study the role of Information Technology (IT) systems and the implications of their use in personal and professional situations.
Students will gain knowledge and understanding of issues relating to the use of IT in personal and professional situations.

REQUIRED EQUIPMENT:

- Lever Arch Folder

Learning objectives:

- ❑ To know the course content for Pearson BTEC Nationals AAQ Level 3 IT
- ❑ To know the expectations when taking IT at Haileybury Turnford

Explanation

UNIT 2: Cyber Security and Incident Management
UNIT TYPE: Exam
EXAM LENGTH: 2 hours 15 minutes

Unit in brief

Students will study cyber security threats and vulnerabilities, the methods used to protect organisations against threats and managing security incidents.

REQUIRED EQUIPMENT:

- Lever Arch Folder

Learning objectives:

- ❑ To know the course content for Pearson BTEC Nationals AAQ Level 3 IT
- ❑ To know the expectations when taking IT at Haileybury Turnford

Explanation

UNIT 3: Website Development
UNIT TYPE: Coursework
TASKS: 3

Unit in brief

Students will investigate fundamental principles in website development. They will design and develop a website in response to a client brief.

REQUIRED EQUIPMENT:

- Microsoft Word/PowerPoint
- Coding App for HTML/CSS/Javascript

Visual Studio Code

Learning objectives:

- ❑ To know the course content for Pearson BTEC Nationals AAQ Level 3 IT
- ❑ To know the expectations when taking IT at Haileybury Turnford

Explanation

UNIT 4: Relational Database Development
UNIT TYPE: Coursework
TASKS: 3

Unit in brief

Students will investigate fundamental principles in website development. They will design and develop a website in response to a client brief.

REQUIRED EQUIPMENT:

- Microsoft Word/PowerPoint
- Relational Database Management System

Learning objectives:

- ❑ To know the course content for Pearson BTEC Nationals AAQ Level 3 IT
- ❑ To know the expectations when taking IT at Haileybury Turnford

Starter

What websites do you know?

Task Time: 5:00

- What websites do you know about? How would you **categorise** them?
- See if you know the websites behind these logos below!

Learning objectives:

- ❑ To know the course content for Pearson BTEC Nationals AAQ Level 3 IT
- ❑ To know the expectations when taking IT at Haileybury Turnford

Checking Progress

What websites do you know?

Amazon | Wikipedia | BBC iPlayer | Netflix | Apple

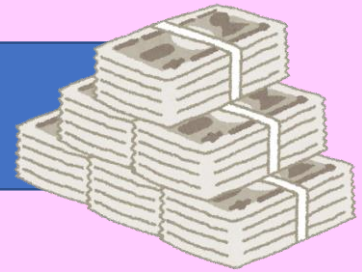
Learning objectives:

- ❑ To know the course content for Pearson BTEC Nationals AAQ Level 3 IT
- ❑ To know the expectations when taking IT at Haileybury Turnford

Checking Progress

Categorising Websites

E-Commerce – Websites that allow people to buy products online.



Information – Websites that give people information.

Entertainment – Websites that are designed to entertain their visitors.

Promotional – Websites designed to promote products and services

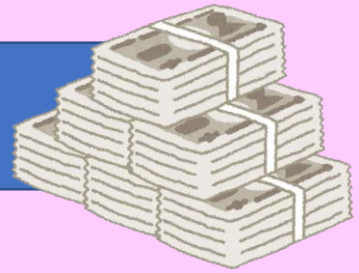
Learning objectives:

- ❑ To know the course content for Pearson BTEC Nationals AAQ Level 3 IT
- ❑ To know the expectations when taking IT at Haileybury Turnford

Explanation

Categorising Websites

E-Commerce – Websites that allow people to buy products online.



Information – Websites that give people information.

Entertainment – Websites that are designed to entertain their visitors.

Promotional – Websites designed to promote products and services

How can we categorise these five websites?

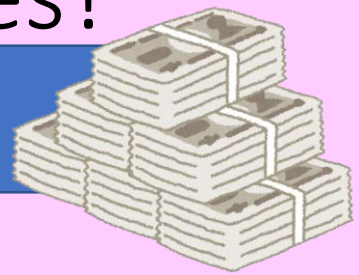
Learning objectives:

- ❑ To know the course content for Pearson BTEC Nationals AAQ Level 3 IT
- ❑ To know the expectations when taking IT at Haileybury Turnford

Explanation

How does a website you visit fit these categories?

E-Commerce – Websites that allow people to buy products online.



Information – Websites that give people information.

Entertainment – Websites that are designed to entertain their visitors.

Promotional – Websites designed to promote products and services

Let's discuss websites you visit!

A website can be in more than one category!

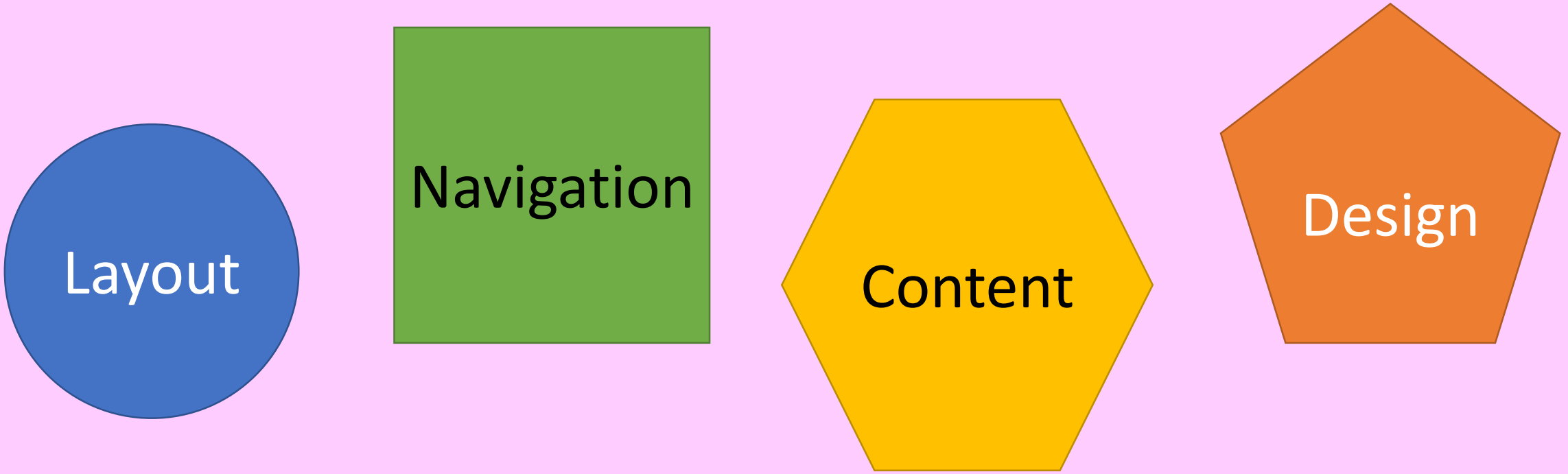
Learning objectives:

- ❑ To know the course content for Pearson BTEC Nationals AAQ Level 3 IT
- ❑ To know the expectations when taking IT at Haileybury Turnford

Explanation

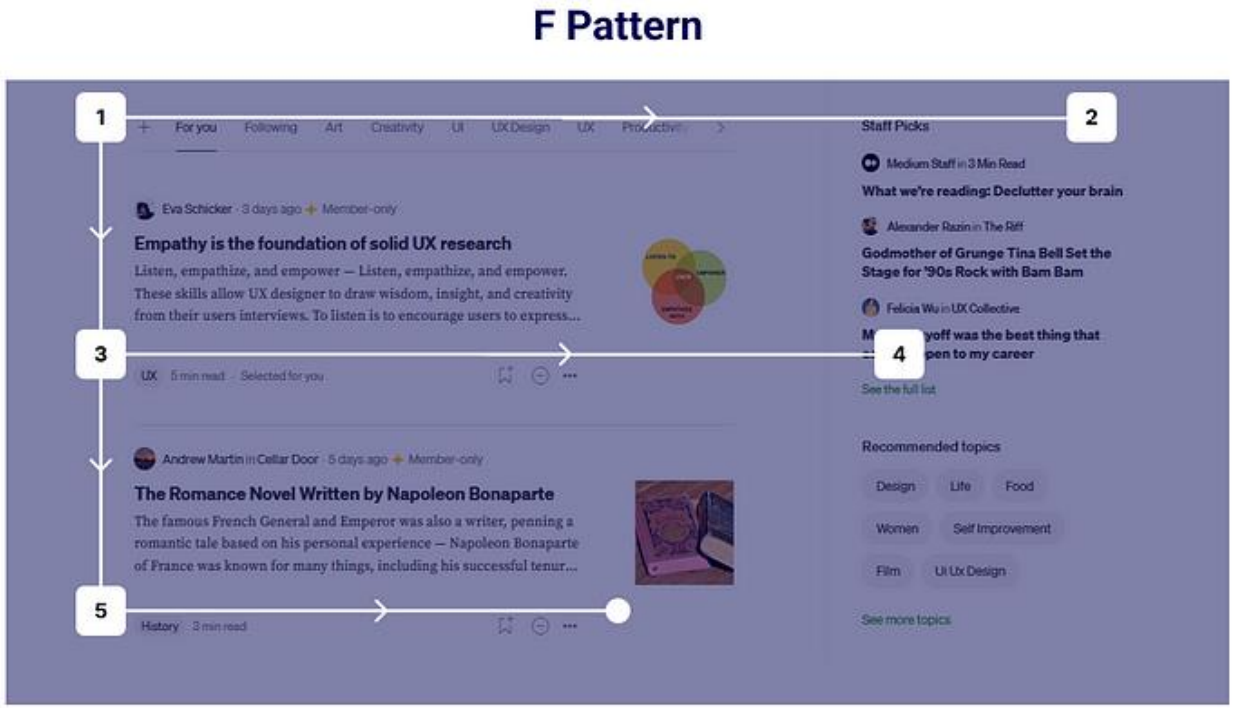
How can we design websites?

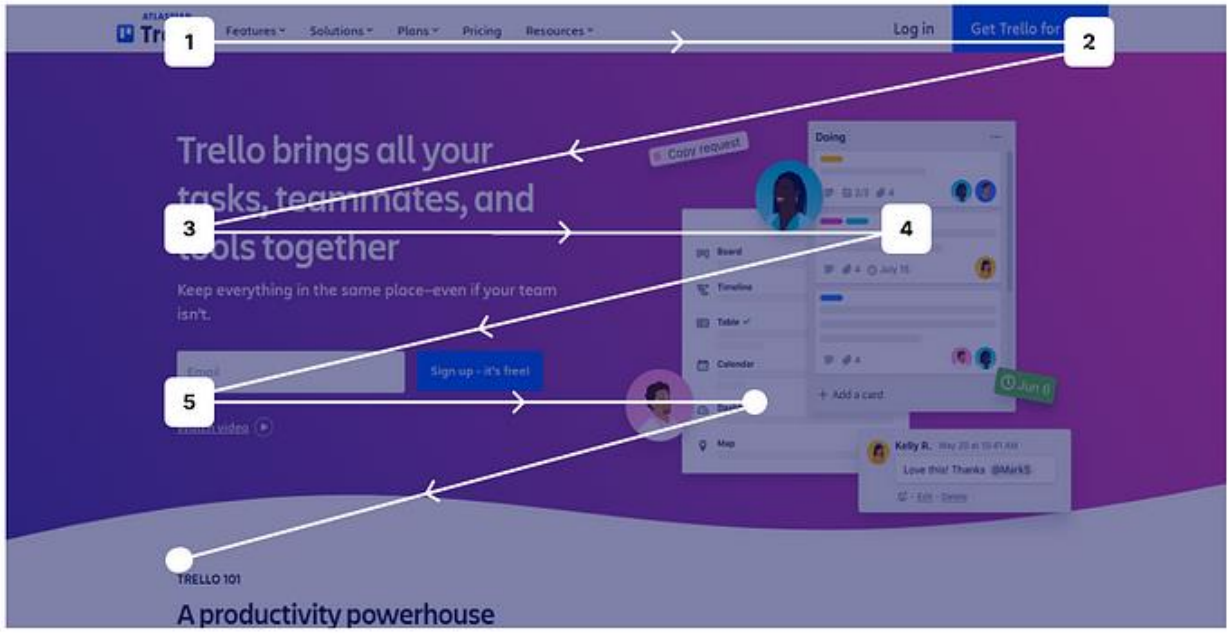
There’s four important parts to a website’s design.



Explanation

Layouts





Website design includes how we organise our content. We need to optimise this based on how people read text and images on a page.

Learning objectives:

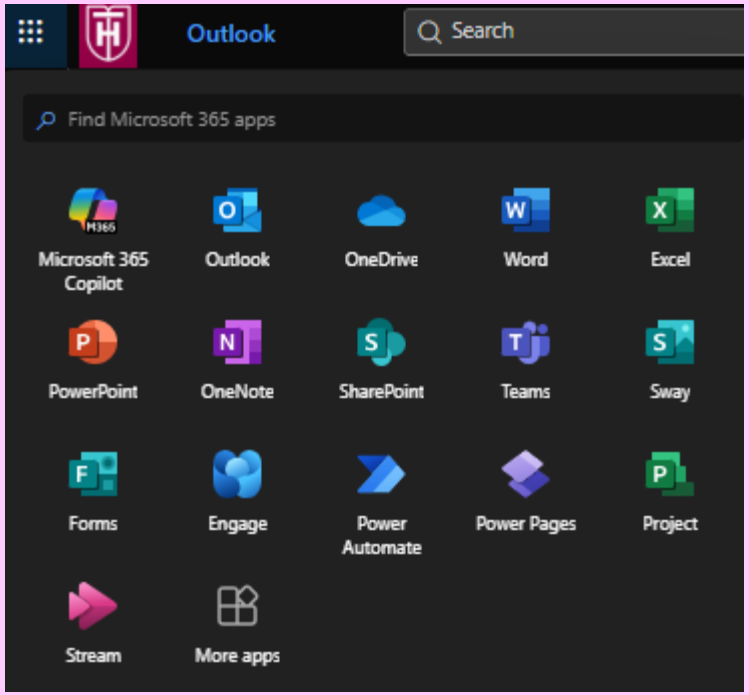
- ❑ To know the course content for Pearson BTEC Nationals AAQ Level 3 IT
- ❑ To know the expectations when taking IT at Haileybury Turnford

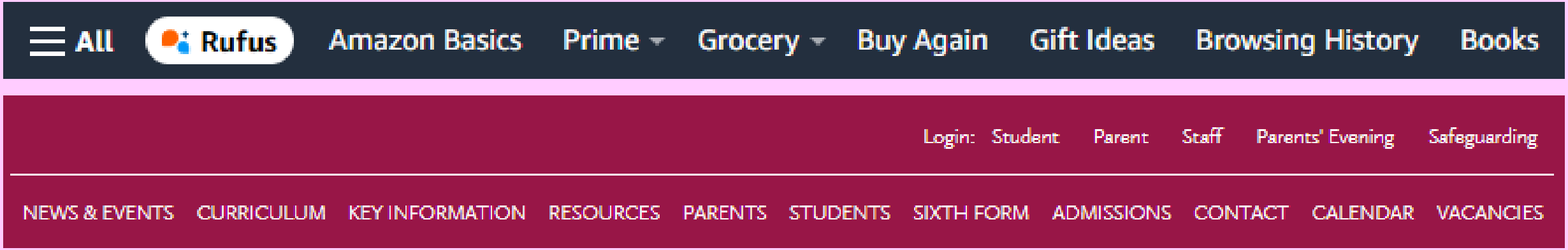
Explanation

Navigation

Getting users to key areas of your website is very important.

We can use **Navigation Bars**, **Hamburger Buttons** and **Waffle Buttons** to make things easier.





Learning objectives:

- ❑ To know the course content for Pearson BTEC Nationals AAQ Level 3 IT
- ❑ To know the expectations when taking IT at Haileybury Turnford

Explanation

Content

Written Content

Usage of Headers, bold text, lists and more to make written content easier to read.

About this item

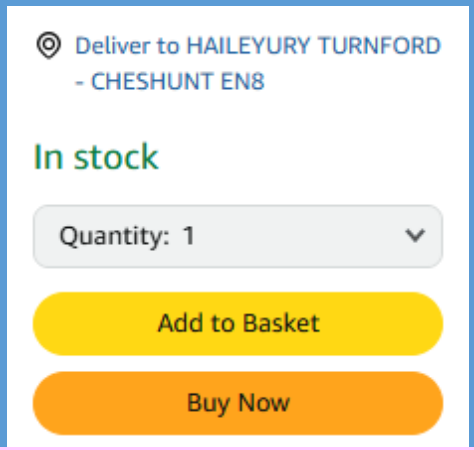
- POWERFUL PERFORMANCE: Upgrade your PC with the fast performance it needs. The Crucial P3 Plus delivers load times and data transfers that are 8.9x faster than SATA and 43% faster than the fastest Gen3 SSDs
- SPACIOUS STORAGE: With generous space of up to 4TB, the Crucial P3 Plus offers powerful Gen4 storage for loads of apps, programs, files, docs, photos, videos, and games — with room to spare.
- SOLID SECURITY: Gen4 technology, SSD management software for performance optimization, and firmware updates give the Crucial P3 Plus SSD everything you need for security and peace of mind. 5-year limited warranty and backwards compatible with Gen3 for ultimate flexibility
- TRUSTED TECHNOLOGY: Built with high-quality Micron Advanced 3D NAND and tested and validated to the expert standards you've come to expect from one of the world's largest manufacturers of flash memory.
- INNOVATION: Micron has been producing some of the world's most advanced memory and storage technologies for more than 40 years. All Crucial products are developed by Micron's world-class engineering team to ensure best-in-class quality and reliability
- Up to 80% savings on Acronis Cyber Protect Home - Protect your photos, files, applications, operating system and devices.

Visual Content

Good use of video and image content that is clear to the user. Alt Text/Subtitles can be used for accessibility.

Calls to Action

A call to action is where you get users to do something like buying something.



Learning objectives:

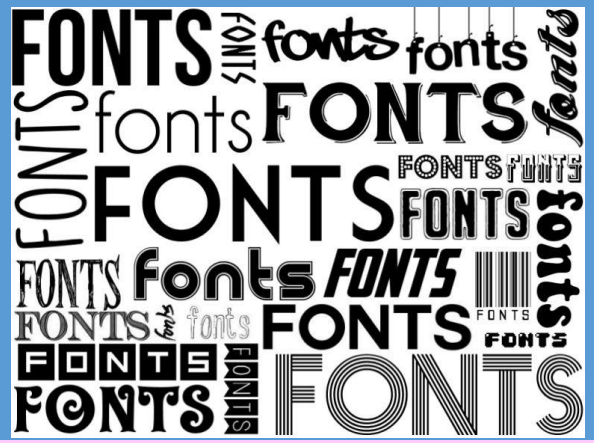
- ❑ To know the course content for Pearson BTEC Nationals AAQ Level 3 IT
- ❑ To know the expectations when taking IT at Haileybury Turnford

Explanation

Design

Typography

The typography (fonts) used on the website is key for readability and style



Colour Scheme

The key colours for your website should be consistent and represent the business.

#D40A6D #0D334B #C9AF7F #0B1021 #48A594

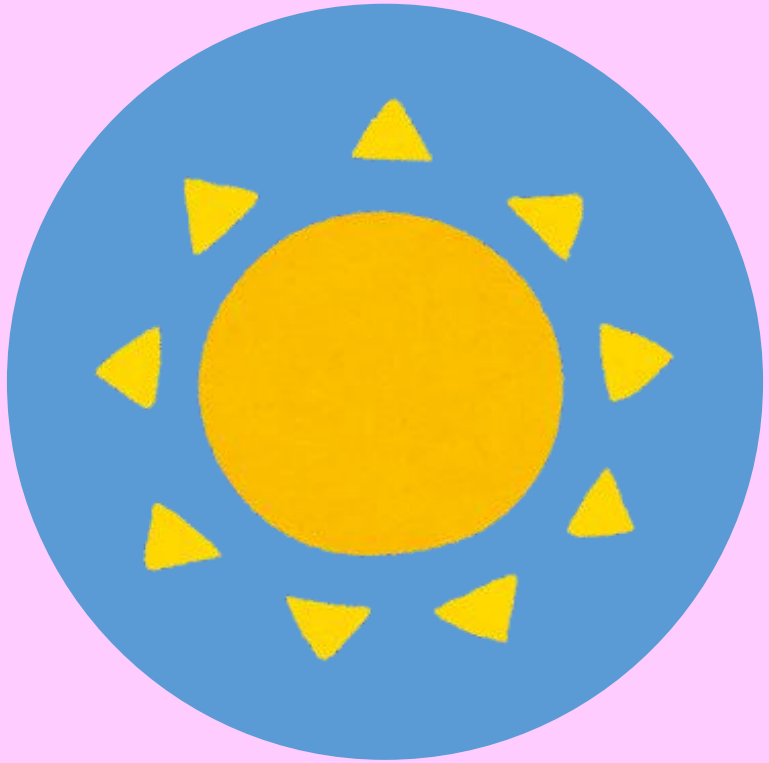
Learning objectives:

- To know the course content for Pearson BTEC Nationals AAQ Level 3 IT
- To know the expectations when taking IT at Haileybury Turnford

Explanation

IT Summer Task

- Create a presentation in either PowerPoint or Canva that discusses the typical demographics of a **range of websites.**
- Demographics can include age, gender, location, income, education and technology usage.



Learning objectives:

- ❑ To know the course content for Pearson BTEC Nationals AAQ Level 3 IT
- ❑ To know the expectations when taking IT at Haileybury Turnford