

# 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



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## 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.



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## Explanation

# What skills will you get?

You will:

- Gain the technical skills to:
  - Design and build a website to meet user requirements using relevant tools and techniques.
  - Know how to test websites 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.



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# Explanation

## What skills will you get?

You will:

- Gain knowledge of digital technologies.
- Know how organisations plan digital projects and follow a project lifecycle.
- Know how to keep data and assets secure
- Get transferable skills such as creativity, innovation, written communications, critical thinking and taking personal responsibility.
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## 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**

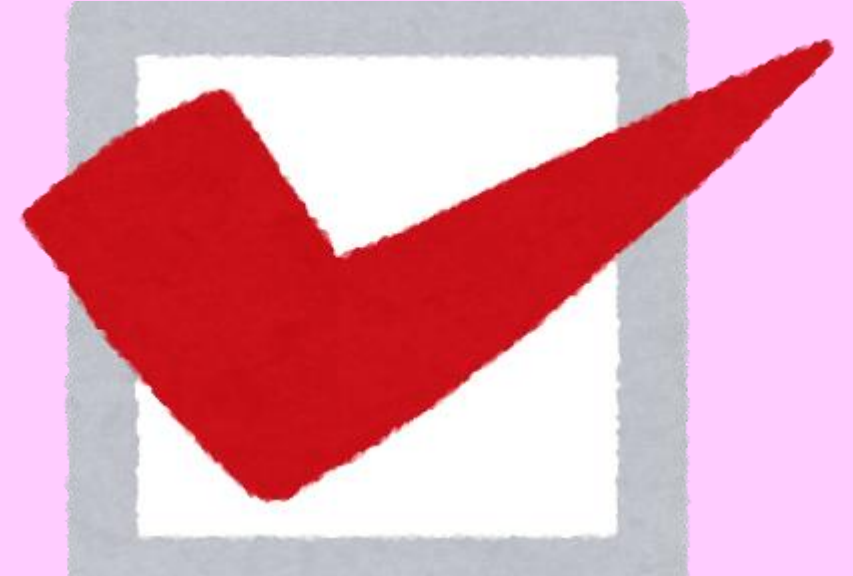


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## Missing Lessons

- Students are expected **to attend all lessons.**
- If there is a reason where you can't attend then please speak to your teacher before the day to find out what you're missing.
- If you're ill, you need to catch up by getting lesson notes in your own time.

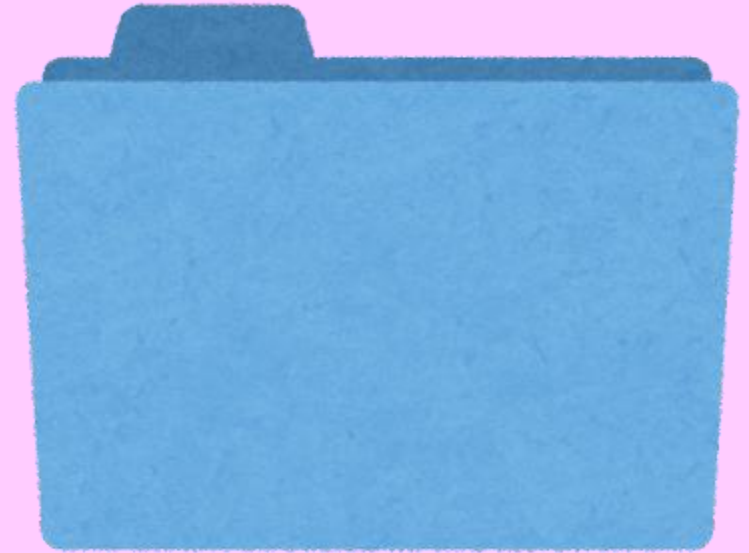


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## Standard Ways of Working

- You must **keep all of your coursework saved on the school network.**
- You should also **backup your work on OneDrive** but this should be a secondary copy that you can work on at home.
- When sending work, you need to send work **as an attachment** to your teachers.
- If you lose your work, we can't delay your deadlines!
- You are expected to **keep your documents in order**, including using appropriate file names and a suitable folder structure.



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## 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.



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## Explanation

# Units to be studied

### Exams

Unit 1: Information Technology Systems

Unit 2: Cyber Security and Incident Management

### Coursework

Unit 3: Website Development

Unit 4: Relational Database Development



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# Explanation

UNIT 1: Information Technology Systems

UNIT TYPE: Exam (Year 12)

EXAM LENGTH: 2 hours

## Unit in brief

Students will study the role of Information Technology (IT) systems and how it affects people in personal and professional situations. This includes knowing about IT Systems, Networks and Online Communications.

## REQUIRED EQUIPMENT:

- Lever Arch Folder



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## Explanation

UNIT 2: Cyber Security and Incident Management

UNIT TYPE: Exam (Year 13)

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



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# Explanation

UNIT 3: Website Development  
UNIT TYPE: Coursework (Year 12)  
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. You will be coding in HTML, CSS and JavaScript to create your website.

## REQUIRED EQUIPMENT:

- Microsoft Word/PowerPoint
- Visual Studio Code



Visual Studio Code



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# Explanation

## UNIT 4: Relational Database Development

UNIT TYPE: Coursework (Year 13)

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
- Microsoft Access



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## 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!



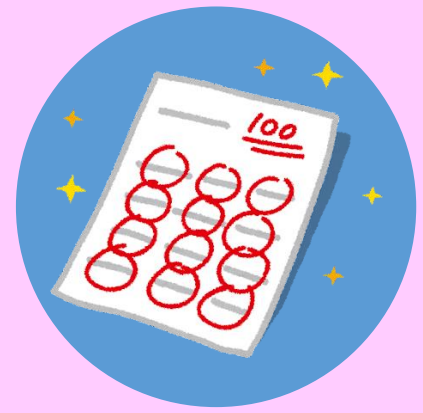
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## Checking Progress

What websites do you know?



Amazon

Wikipedia

BBC  
iPlayer

Netflix

Apple



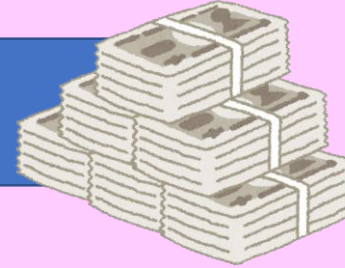
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# Explanation

## 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?



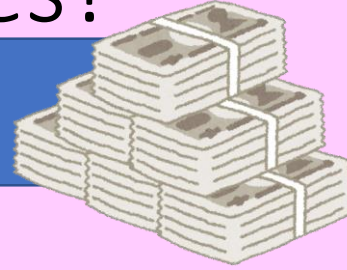
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# Explanation

## 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

**NEW**

Let's discuss websites you visit!

A website can be in more than one category!

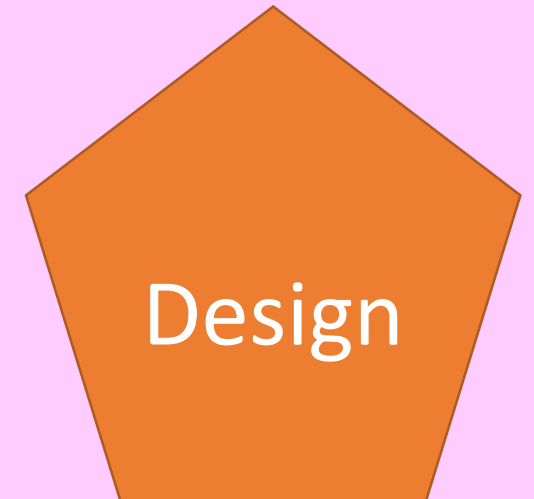
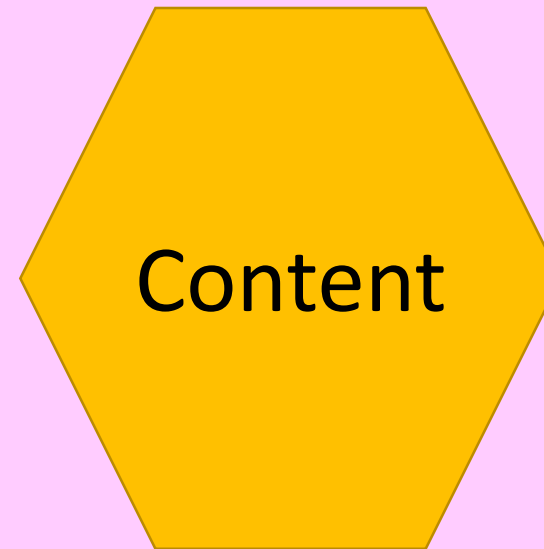
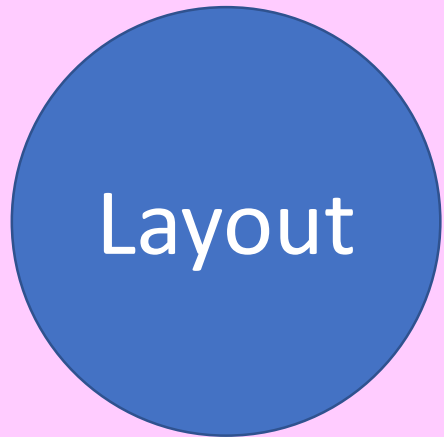


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## How can we design websites?

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



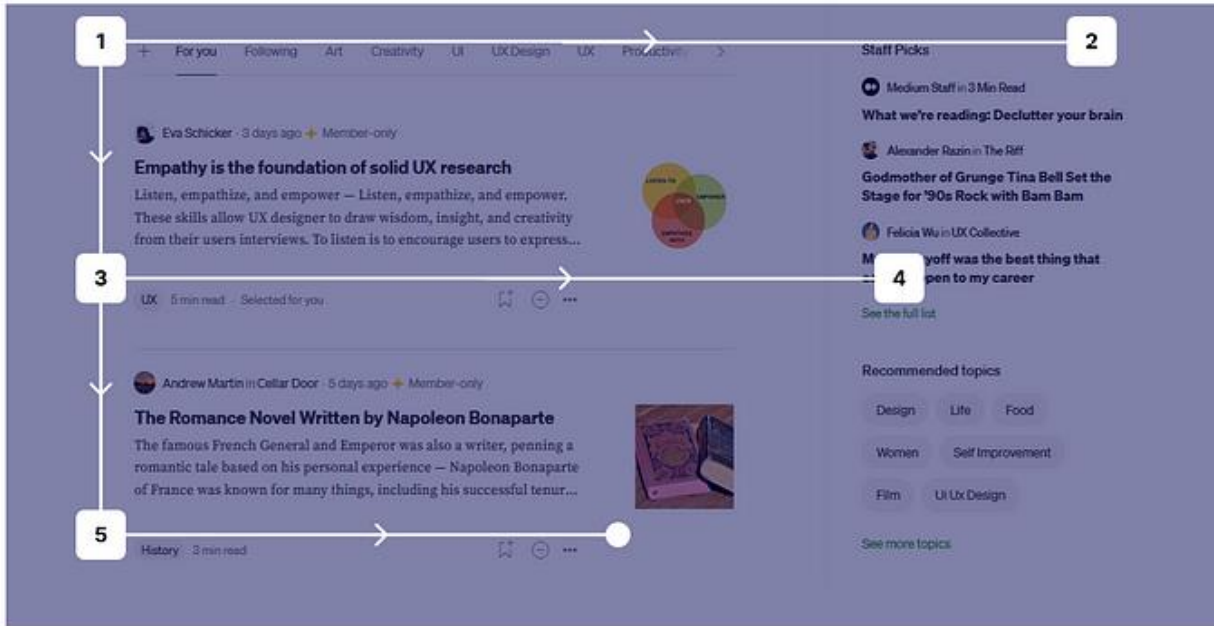
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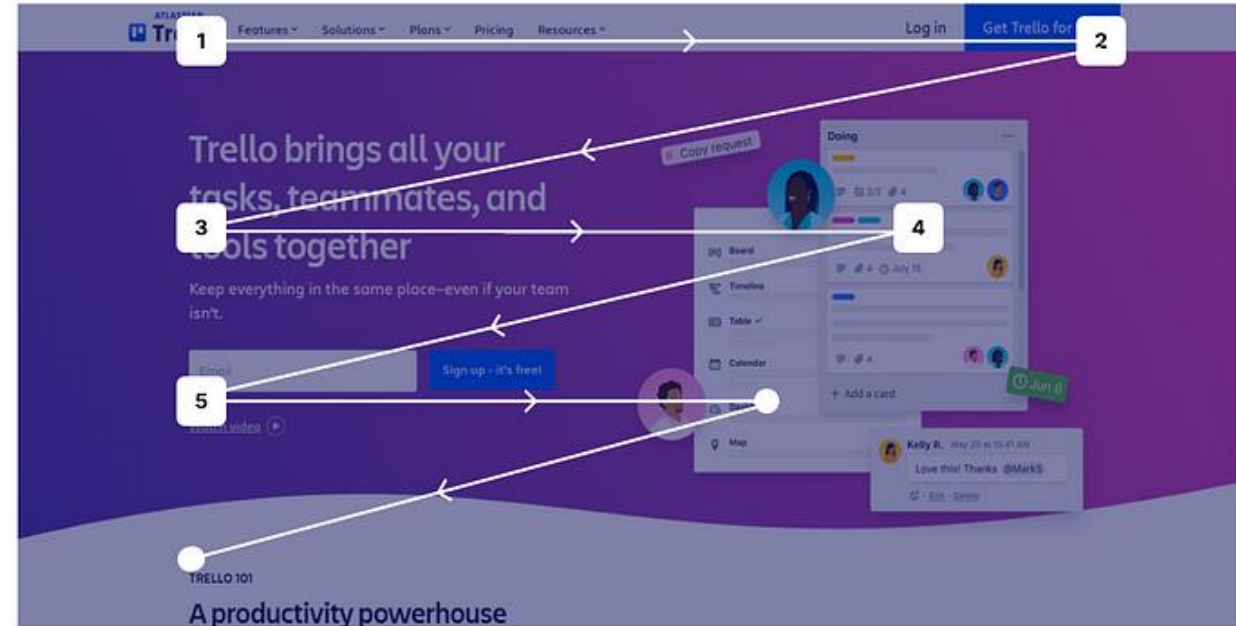
# Explanation

# Layouts

## F Pattern



## Z Pattern



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:

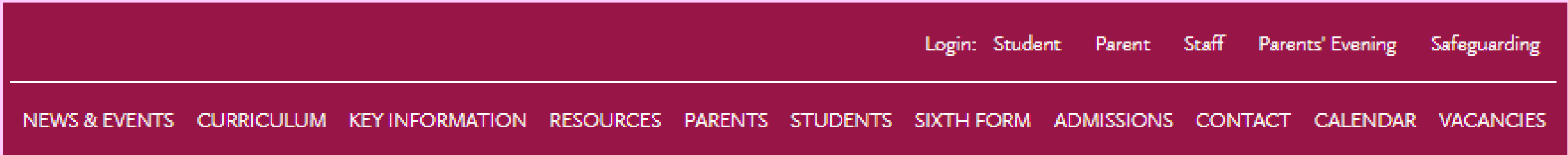
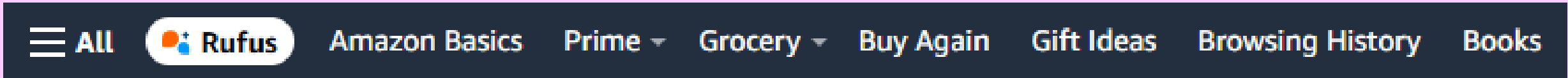
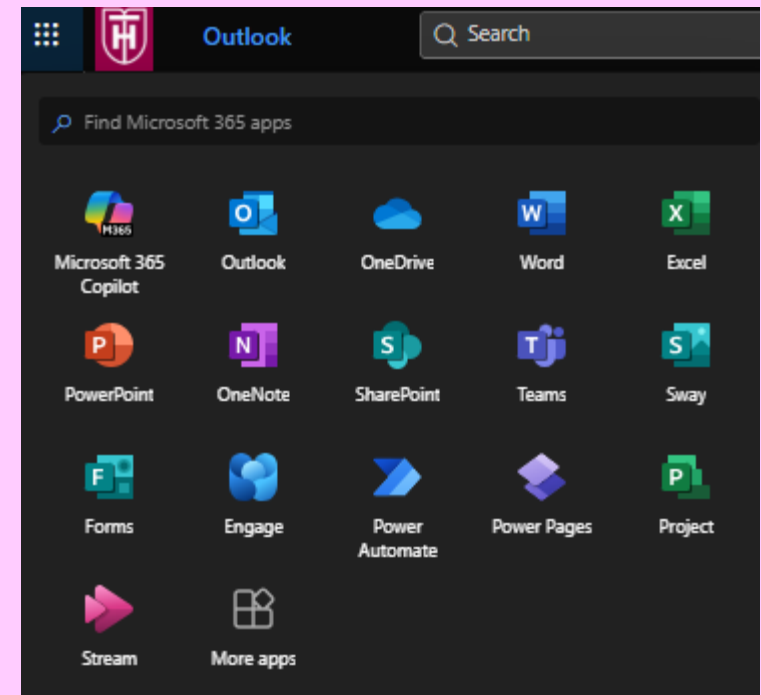
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# Explanation

# 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.



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# 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.

📍 Deliver to HAILEYURY TURNFORD  
- CHESHUNT EN8

In stock

Quantity: 1 ▼

Add to Basket

Buy Now



Learning objectives:

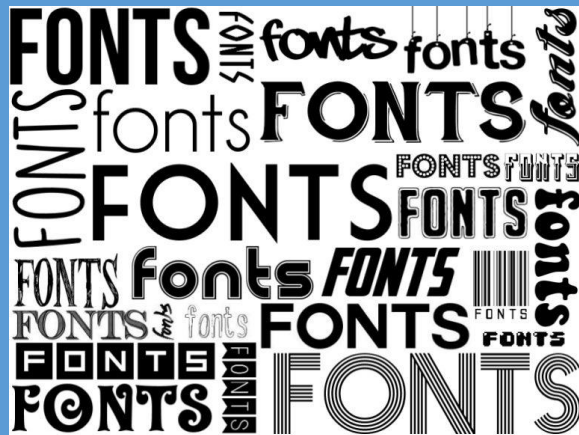
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# Explanation

# 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



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## Explanation

Let's look at a website's code to see how it works.

Go to the Front Page for the Haileybury Turnford website, right click anywhere on the page and select inspect. Be ready to explain what you think each part of the website is for.

Try and find:

The <header> tag.

The Image Carousel

The code for the Welcome Video

The code for any articles linked on the front page

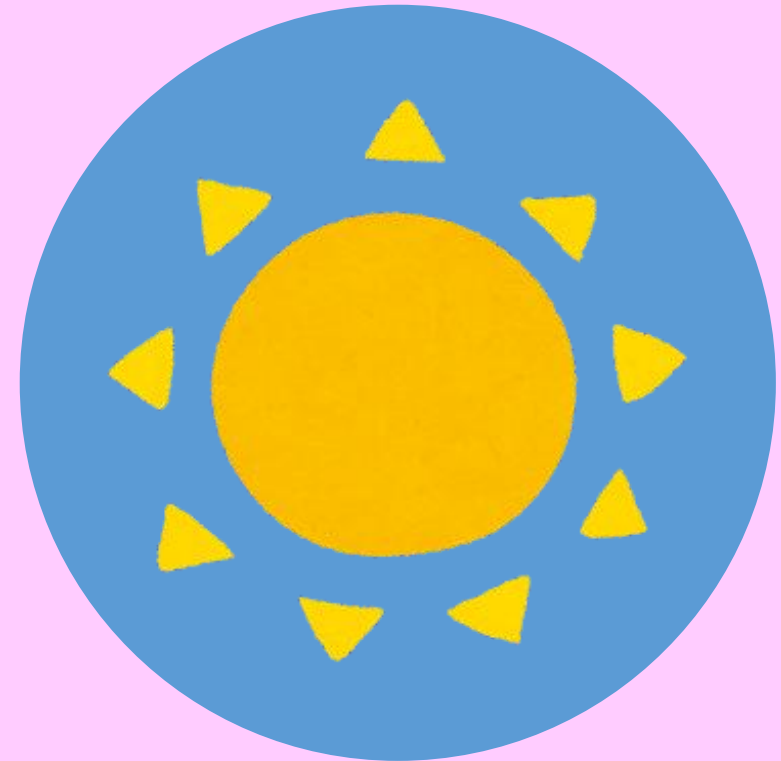
How has the HT Website been designed well?



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- 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.



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