TM252
Web Technologies

EMA Q & A

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This tutorial will be recorded

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Tutorial Overview

Have you read the EMA Errata

- Important facts
- Mark distribution
- Part 1 – Project Plan & Risk Assessment
- Part 2a – Wireframes
- Part 2b – Design explanation
- Part 2c – Acceptance Tests
- Part 2d - Report structure – writing
- Report structure – citations & references
- Word counts

- Part 3a – Form implementation
- Part 3b – Use of version control
- Part 4 – Discussion
- Part 5 – Reflection
- What to submit
- Checklist

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Have you read: EMA Errata

News Item 4th August

…

You should include all files required for your Part 3 solution in addition to 'form.html' and 'custom.css', in the folder structure that they are required for 'form.html' to be viewed in a web browser. Unzipping the EMA submission then opening 'form.html' from the unzipped folder should allow a marker to view your solution.

The simplest way to incorporate Bootstrap into your Part 3 solution is to start with the TMA01 Resource Pack, placing 'form.html' in the 'pages' folder and 'custom.css' in the 'css' folder and removing any files that are not required. Bear in mind that Part 3 requires the use of version control software as you develop your solution.

Important date

- EMA **Tuesday** 16 September (**not** a Thursday!)

- As with all EMAs...
    - Last submission is marked
    - Cutoff is midday
    - Then 12-hour grace period to allow for IT issues
    - Then 24-hour grace period with 10-mark penalty
    - NO extensions are possible!

- Last day to defer is **Monday** 15 September

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TM252 Assignments

Assessment	Submission week	Weighting
TMA 01	9	20%
TMA 02	18	20%
TMA 03	26	20%
EMA	**32**	**40%**

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To pass TM252

- You must achieve an overall score of **at least 40**,
- **and** a score of **at least 30** on your EMA.

Resources

- Balsamiq template
- TMA01 Resource pack
- Chrome Browser + WAVE (or equivalent)

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Your solution document

› Your written answers to EMA questions must be provided in **a single** 'solution document', being a Microsoft Word document (.docx or .doc format) which must be named 'oucu_ema' where 'oucu' is your own Open University computer username (OUCU).

› Other formats, including PDF files, **are not permitted** and will not normally be marked, nor will you be given the opportunity to resubmit in a permitted format.

Note: Name the file: "oucu_ema.docx"

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How to present your answers

- **Structured**: Ensure that your answer is coherent and written in a logical order. Use headings and subheadings to make clear what you are covering in each section.
- **Relevant**: You should ensure that your answers provide only the relevant information that each task asks for and nothing more.
- **Knowledgeable**: Your answer should demonstrate an understanding of the subject matching the level of your studies so far.

How to present your answers

- **Evidenced**: You must demonstrate knowledge of the topic by including supporting, referenced evidence from module materials, external resources etc.\

- **Formal in tone and style**: Wherever possible, you should use appropriate language to ensure that your answer is clear, concise and reasonably balanced when there are multiple opinions or lines of evidence. You should only take an opinionated point of view when the question specifically asks you to do so.

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How to present your answers

- **Spelling and grammar:** Marks are available for well-formatted, correctly spelled and grammatically sound answers.

Carefully read your solution document before submitting your assignment and make amendments where necessary

Have you seen

TM252 => Resources

Addendum videos

🌐 **Link to Addendum Video Playlist**

🌐 **Generative AI warnings and uses**

🌐 **EMA Guidance**

🌐 **Balsamiq**

This video details how to create and edit wireframes applying mobile first design principles. It also includes help with making changes to symbols and creating separate sitemaps.

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Have you seen

TM252 => Forums => EMA

EMA Errata and Common Questions/Answers

Stephen Rice
Moderator
4 Aug 2025 09:12
Edited by the author on 3 Sept 2025 18:54 (History)
✉ Unread post

The moderators will add to this post as questions or errata emerge.

Please start a new discussion if you have any questions.

Some handy links:

- EMA
- EMA Errata news item 4 Aug 2025
- EMA Guidance videos (links discussed in the videos are on the Resources tab)
- EMA Q&A Event 9 Sep 2025
- Part 2(a) template: EduMax_EMA_Template.bmpr
- Part 3(a) initial resources: TMA01 Resource Pack
- Block 1 Balsamiq videos
- Block 1 EduMax wireframes.bmpr (from the Resources tab) [thanks to Marlissa for suggesting these]

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EMA mark breakdown

Part	Title	Marks
1	**Planning (work schedule + risk assessment)**	**5**
2	**Design report**	**45**
	- 2(a) Site map and wireframes	20
	- 2(b) Design explanation	10
	- 2(c) Acceptance tests	10
	- 2(d) Report structure and quality	5
3	**Implementation**	**25**
	- 3(a) Form implementation	20
	- 3(b) Version control	5
4	**Discussion**	**20**
	- 4(a) Front-end frameworks advice	10
	- 4(b) Sustainability advice	10
5	**Reflection**	**5**

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EMA Part 01 Project Plan & Risk Assessment

Keep it simple

- Table

- Bulleted List

Identify all your tasks

- Report writing (2b, 2c, 3b, 4a, 4b & 5)

- Installing any software (git?) and using it (3b)

- Wireframes (2a)

- Web form (3a)

- ...

Note: No word limit

EMA Part 01 Project Plan

Task	Estimated Duration	Start date	Finish date	Notes
Reread the application scenario	10 minutes	11/08/2025	11/08/2025	
Identify the applications requirements and split them into relevant pages	20 minutes	11/08/2025	11/08/2025	
Design a master page template that details the elements that will be shared across all pages	1 hour	11/08/2025	11/08/2025	Use Balsamiq for this task
Design individual pages based on the master template	3 hours (depends on the number of pages)	11/08/2025	12/08/2025	Refer to notes taken in the second task about the sites pages
Write the design explanation	3 hour	13/08/2025	14/08/2025	

EMA Part 01 Risk Assessment

IMPORTANT: 4-6 risks

- ‣ Technological failure

- ‣ Work

- ‣ Family

- ‣ Other OU Module conflicts

- ‣ Health

- ‣ YOU! – misunderstanding the requirement (work and time) Skills shortage etc.

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EMA Part 2a Wireframes

How many? Read the EMA carefully Admin View of:

- ‣ to create and update the module catalogue
- ‣ learning events
- ‣ news items – for part 3a
- ‣ announcements
- ‣ manage student membership
- ‣ module registration.

Note: Name the file: "oucu_q2.bmpr"

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27

EMA Part 2b Design Explanation

- ‣ your grouping of functional requirements into pages and actions
- ‣ your choice of navigation mechanisms
- ‣ how your design will respond when used on a mobile device
- ‣ any alternative designs you considered and why you rejected them.

Note: Word limit is 500 words

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EMA Part 2c Acceptance Tests

Why we use acceptance tests

- ❯ Business Requirements Validation
- ❯ Data Integrity and Validation
- ❯ User Interface and Usability
- ❯ Error Handling and Recovery
- ❯ Compliance and Standards

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EMA Part 2c Acceptance Tests

> ❯ two tests of the requirement to edit an existing learning event

> ❯ two tests of the requirement to add a news item.

Task
Setup

Action

Consequence

Note: No word limit

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EMA Report structure

- A meaningful title
- A short introduction.
- Main body
- A short conclusion.
- A reference list

EMA Report structure

- A meaningful title for your report (i.e. something that acknowledges the content of the report rather than simply 'EMA Report').
- A main body, clearly divided into sections with appropriate subheadings, each of which should reflect the content.
- A short conclusion.

EMA Report

Report writing is an iterative process

The **P**rocess **W**riting **R**outine

Think

Plan

Write

Revise

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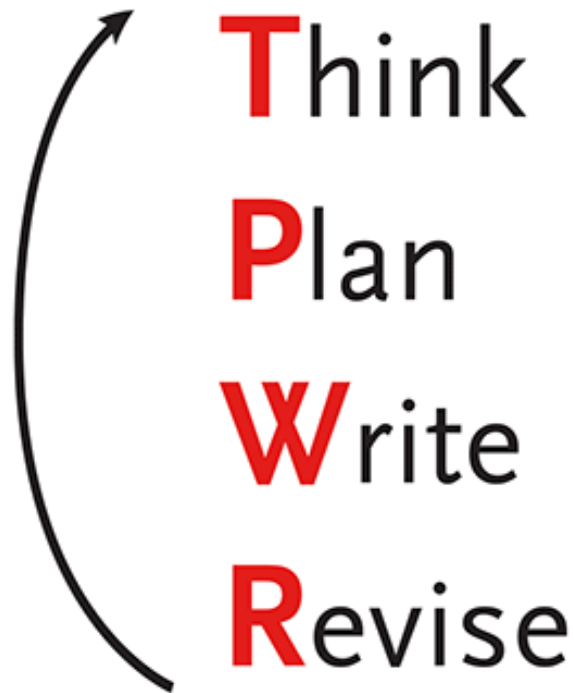
Academic writing should be...

formal

- × a lot of the results I got look kinda dodgy
- ✓ many results are unreliable

precise

- ‣ avoid phrases that require interpretation by the reader
- × everyone has been interested in this stuff for ages
- ✓ researchers have been interested in *** for over 10 years

fact based

- × they reckon the exam was the hardest ever
- ✓ a record 83% of pupils failed to pass the exam

unbiased

- × this is a rubbish idea
- ✓ there are considerable issues with *** such as...

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Academic writing should not be...

‣ personal

  × In my opinion...
  × I think...
  × I like...

‣ but these are OK
‣ (though check with your tutor to see whether they agree!)

  ✓ I conducted interviews with...
  ✓ I argue that...
  ✓ I hope to achieve...

Use the first person for refection.

‣ emotive

  × it was absolutely horrific that so many died and were injured and makes this awful tragedy one of the worst catastrophes ever
  ✓ The injury and mortality rates of this incident were among the highest in recent history

‣ casual

  ‣ LOL
  ‣ cu l8r
  ‣ can't, won't, you're

Do not write yourself into a report.

EMA Report

Reference lists

- A reference list formatted in the **Cite Them Right Harvard style**.

- All references should be cited in your report using in-text citations.

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EMA Report

References

- A report of this size will need several references including those to leading authorities on usability and accessibility.

- References MUST be formatted in the Harvard Cite Them Right style.

- A reference is cited within your text

- A reference list must be presented in alphabetical order.

EMA Report
Reference example

A reference is anchored within your text by a citation. This is of the form:

(name, year)

where name could be an organisation or the family name of an author. For example,

(Nielsen, 1994)

(Note the brackets are needed.)

EMA Report
Reference example

A reference is formatted in the Cite Them Right Harvard style. Since this is a Web site, our format style is:

name, initial(s) (year) *title* Available at: URL (Accessed: date)

For example,

Nielsen, J. (1994) *10 Usability Heuristics for User Interface Design* Available at: https://www.nngroup.com/articles/ten-usability-heuristics/ (Accessed: 24 August 2025)

(Note the brackets are needed around accessed date but no where else)

How to present your answers
Word Counts

What to include in the word count:

- your answers and other required text (e.g. introduction and conclusion)

- section headings

- content of tables figure and table captions

- in-text citations (e.g. author name and date of publication)

- quotes

How to present your answers
Word Counts

What **not** to include in the word count:

- reference list

How to present your answers
Word Counts

Section	Word count
Part 2b (Introduction & Conclusion)	200
Part 2b	500
Part 4a	400
Part 4b	400
Part 5	500
Total	**2000 + 10%**

Checklist with advice on writing

- The text is appropriate for its audience
- The spelling and grammar have been checked
- The text has a proper layout and structure
- The text is coherent
- The text does not exceed the maximum length
- You have used citations with a reference list

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Part 3a Form implementation

Use TMA01 resource pack
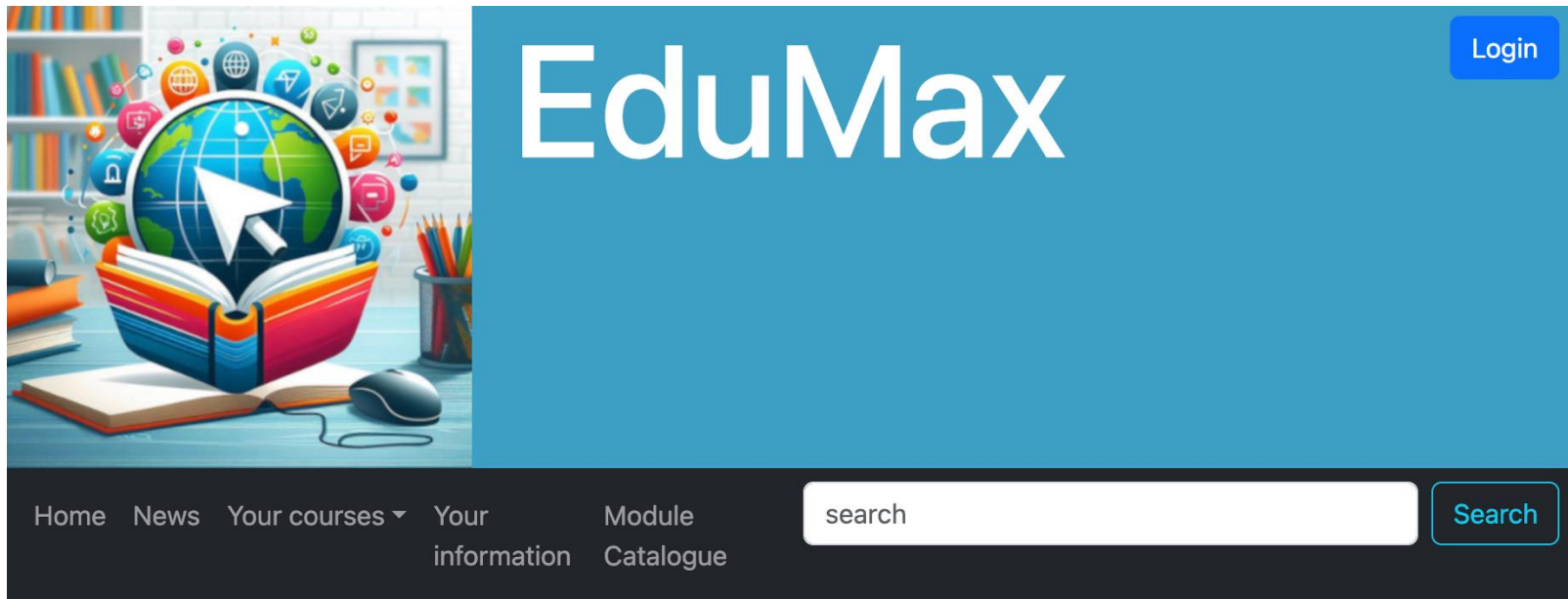
Part 3a Form implementation

Plenty of resources

- https://getbootstrap.com/docs/4.1/components/forms/
- https://www.w3schools.com/bootstrap5/bootstrap_forms.php
- There are some decent tutorials on YouTube e.g.:

DEMO
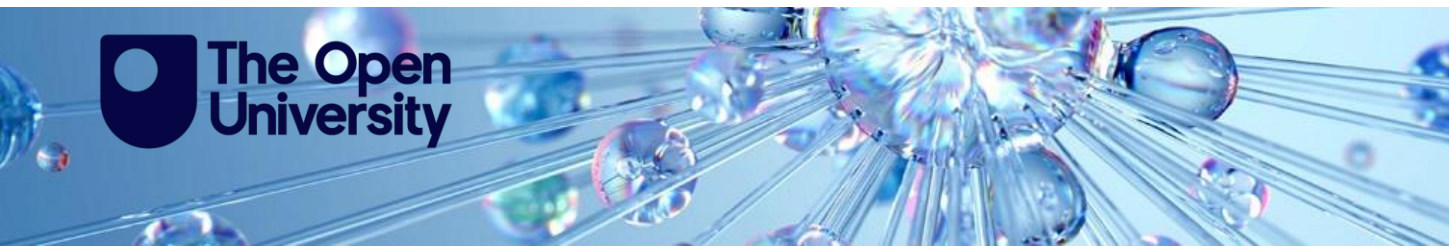
Part 3a Form implementation

Check your files for errors with Wave?
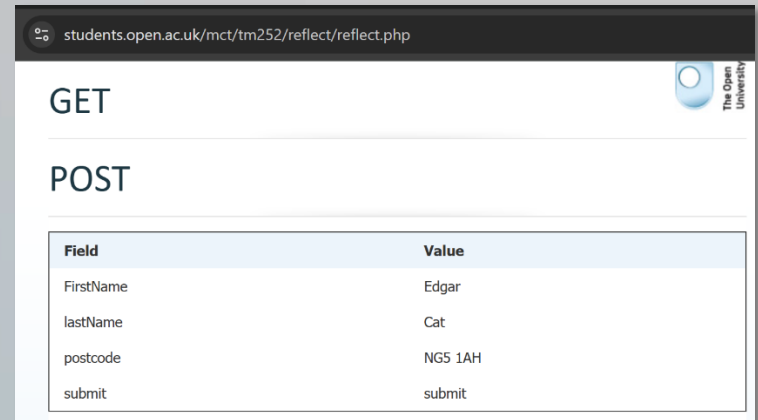
Testing functionality

Check the data your form sends to the reflector page:

- Check HTTP method i.e. data appears in POST section
- Check input names and values
- Check hidden *itemID* input name and value

- No screenshots required!

Testing responsiveness

Resize window or use DevTools / Device Mode:

- See **EMA guidance** video in module Resources tab
- See [Google tutorial or video](#) especially **Preset media query breakpoints**
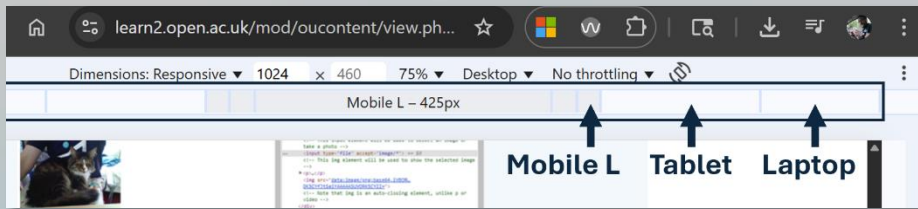
- No screenshots required!
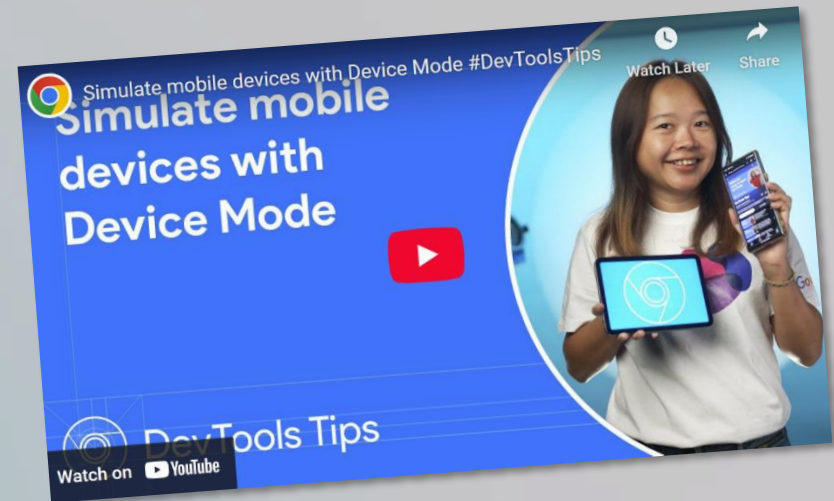
Testing HTML and CSS validity

Use W3C HTML and CSS validators:

- See Block 1 tutorials

- Review your TMA01 feedback on validation

- Fix errors; fix or explain warnings

- Provide captioned screenshots as evidence of testing

Part 3b Use of version control

Provide evidence of your use of version control in your solution document. Include **either**:

- ‣ one or more screenshots of the **git log** or equivalent command output for your repository showing evidence of meaningful commits to your Part 3 solution files over time, or

- ‣ one or more screenshots of the history of your repository in the Git (or equivalent) GUI showing evidence of meaningful commits to your Part 3 solution files over time.

EMA Part 4

EduMax have some vague requirements which you need to clarify...

4(a): Front-end Framework (10 marks)

- **Review sources given in answer** and **do further research**
- Ask a relevant question to EduMax
- Suggest 2 possible answers
- Provide advice + reasoning for each answer
- Include an academic citation
- **Word limit: 400 words**

4(b): Sustainability (10 marks)

- Same structure as 4(a), focused on sustainability
- For example: self-hosted server vs cloud solution
- **Word limit: 400 words**

Choice depends on project needs and constraints, e.g., scale/complexity, developer skills, existing solution

EMA Part 4a Front-end Frameworks

Week 17 See case study

https://learn2.open.ac.uk/mod/oucontent/view.php?id=2403355&section=4

Consider: React, Vue, Angular, Svelte, etc.…

Note: Word limit is 400 words

EMA Part 4b Sustainability

Week 10 section 2.2.5

https://learn2.open.ac.uk/mod/oucontent/view.php?id=2403093&section=3.2.5

Look at Microsoft's approach

https://learn2.open.ac.uk/mod/oucontent/view.php?id=2403093&section=3.2.5

https://www.microsoft.com/en-us/corporate-responsibility/sustainability

Note: Word limit is 400 words

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EMA Part 5 Reflection

What is needed

- If you were to consider a career working with web technologies, what role might you aim for and why?

- What knowledge, skills or attitudes relevant to this role have you gained in studying this module or in prior study? How well did that go?

- What knowledge or skills would you look to develop in future and how would you go about this?

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Note: Word limit is 500 words

Part 5 Reflection

Models of reflection

- Keep a Journal
- FutureYou

What to submit?

Four files all zipped together

- ‣ Balsamiq file (or equivalent) of site map and wireframes for your Part 2 solution
- ‣ form.html file containing the HTML code for your Part 3 solution
- ‣ custom.css file containing the custom CSS code (if any) for your Part 3 solution
- ‣ solution document with your written submission for Parts 1–5.

NO OTHER FILES – Examiners have these!

Pre-submission checklist

- Followed the specified structure for your report.

- Written in an appropriate style.

- Checked your spelling and grammar using tools built into your word-processing software (e.g. Microsoft Word).

- Proofread your solution document to check that it makes sense and is readable.

Pre-submission checklist

Three files all zipped together

‣ Included word counts where required.

‣ Captioned any images (figures).

‣ Cite all of your references and included references for all your citations in the Cite Them Right Harvard style.

‣ Checked your draft prior to submission using the Turnitin tool.

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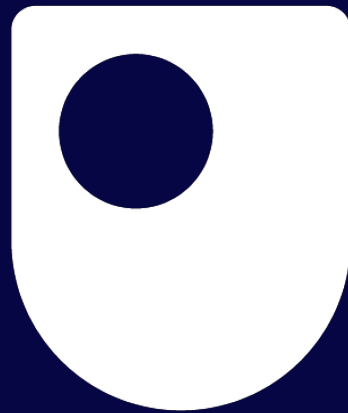**Thank you for coming,
Good luck with the EMA and future OU
Studies**

Question and Answer

Turn your microphone on and ask a question, or if you prefer ask in the chat.