

Giving a voice to the elderly

TEACHERS

Martin Gale, Jonn Nicholson, Moneeb Minhas

SUBJECT

Design

SHARED GRADES

Grade 7

START DATE

Week 1, September

DURATION


16 weeks

COURSE PART

Computer Science

INQUIRY

Key Concepts

 **Communication** is the exchange or transfer of signals, facts, ideas and symbols. It requires a sender, a message and an intended receiver. Communication involves the activity of conveying information or meaning. Effective communication requires a common 'language' (which may be written, spoken or non-verbal).

Related Concepts


Design

Adaptation, Function

Conceptual Understanding

Modes of communication may require adaptation due to changes in our physical or mental states, but the fundamental function of communications remains the same.

Global Context & Explorations

 Identities and relationships

 *Explorations to develop*

- Human nature and human dignity

Statement of Inquiry

As humans age, modes of communication may be adapted to fulfill the function of maintaining dignity.

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Inquiry Questions

Factual Design	What medical conditions can cause people to lose the ability to speak as they age?
Ageing and losing the ability to speak	
Factual Design	What options do the elderly have to maintain communication when speaking is not an option?
Ageing and losing the ability to speak	
Conceptual Design	How significant is this problem globally?
Ageing and losing the ability to speak	
Conceptual Design	How do carers and families adapt to this situation?
Ageing and losing the ability to speak	
Factual Design	What languages are the most popular to make apps for phones and tablets?
Programming languages	
Factual Design	What are the basic programming skills that I need to learn to create my product?
Programming languages	
Conceptual Design	How are programming languages similar - is developing skills with one language a waste of time as each one is unique?
Programming languages	
Conceptual Design	Are there shortcuts to making apps by using templates and frameworks?
Programming languages	
Debatable Design	The universal declaration states "All human beings are born free and equal in dignity and rights". Given the technological innovations of the modern world, failure to assist the elderly in communicating breaches this right.
Ageing and losing the ability to speak	
Debatable Design	Learning to use a programming language is a total waste of time. I'm never going to need these skills for my post-school career.
Programming languages	

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RESOURCES

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Criterion A draft: Giving a voice to the elderly

Formative Criterion draft ⌚ Thursday at 9:00 PM

Students will submit a **pdf** of the Google Document they have been working on at home and during class over the first 6 weeks of this unit.

The purpose of this submission is for the teacher to check on student progress and provide feedback to support student understanding of the Design Cycle and its effective use in this project.

Notes

Teacher has provided a Google Doc framework, mind map diagrams and mini-tasks as scaffolding to aid completion of this draft. See Google Classroom for specific details.

Basic programming skills have been developed through teacher provided starting code and related problem solving and research activities.

SUBMISSION DETAILS

One pdf which contains

- only the Criterion A part of the Google Doc template you have been working on. This will include responses to strands (i), (iii) and (iv) of this criterion

Three separate pdf's which contains

- research planning table for strand (ii)
- attributes table for strand (iii)
- research notes (this will be an appendix in the final design portfolio) for strand (iv)

Brief notes/dot points are totally OK at this stage. Your work will be put together more beautifully in your final portfolio!

Strand (i) Problem and need an identification and justification

notes on your research on the problem of speech loss in the elderly, referencing all sources of information
notes on the importance of the need for a solution to speech loss in the elderly, referencing all sources of information

Strand (ii) Planning research

partial completion of the teacher provided research planning table

Strand (iii) Analysis of existing products

for at least 4 existing products

- completion of the teacher provided *attribute listing* table
- completion of a SWOT analysis (not much T is expected)

Strand (iv) Design Brief

Part 1

a short, concise summary of the research that has answered the main research questions identified in strands (i) and (ii). Subheadings to organise the research and correct MLA citation to be used.

Part 2

A design brief which states

- what you are making
- why you are making it (purpose)
- when you plan to start and finish making your product (after tweaking from testing & evaluation)
- your target audience

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- general details about the product as a result of your thorough research
- basic functioning
- the programming language being used
- if basic frameworks will be used or if most of the code will be unique or if you are undecided at this stage
- the device types that your product should be compatible with*
- the web browsers that your product should be compatible with*

*These are actually part of your Design Specifications for Crit B. Included here to focus the skills development work with coding.

Part 3

brief 'research notes' that have been collected as a result of following the research planning table.

- Use MLA citation format
- This is submitted as a separate pdf.



Criterion B draft: Giving a voice to the elderly

Formative Criterion draft Thursday at 9:00 PM

Submission Details

We should all be getting very good at this. ?

Upload a pdf of only the Crit B section of your "Grandma Doc", which includes

- Strand (i) as per the Google Classrooms published template about your success criteria/design specifications
- Strand (ii) as per the Google Classrooms published template about including pictures of the sketches of your ideas
- Strand (ii) as per the Google Classrooms published template about the table that contains your menu items and categories
- Strand (iii) as per the Google Classrooms instructions
- Strand (iv) as a LINK to your awesome Google Slides mock up of your final app design choice.



Crit C - programming skills check

Formative Quiz Thursday at 3:00 PM

IN CLASS SOLO TASK

Completing this programming activity will help students to get some credit for the SKILLS strand of Crit C, in the unfortunate event that something terrible happens while they are making their app.

Instructions and all files attached.

Dropbox should be full by the end of the day

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Criterion C draft: Giving a voice to the elderly

Formative Criterion draft ⌚ Thursday at 9:00 PM

This formative deadline is designed to attempt to keep you on "track". If you need the final weekend to work on it, then no problem.

Submission Details

Strand (i): "Construct a logical plan, which outlines the efficient use of time and resources, sufficient for peers to be able to follow to create the solution"

- this is your slippage chart (see pdf of template attached). Export your Google Doc as a pdf and upload to dropbox.

2. Strand (ii): "Show you have the skills to pay the bills". No submission required- formative in class has ✓ this

3. Strand (iii): "Follow the plan to make a solution". This is your app ?

a. If coded product - upload a zipped file with your webpage inside. Name the master html file *index.html*, so I know which one to open.

b. If slide show - download as a ppt and upload to dropbox. If you cannot include the audio media as part of your ppt file, then zip all your audio files together and upload that ?

4. Strand (iv): "Justify changes you made on your long and winding journey from final idea to product"

- Not part of the submission, but it will be the first thing you'll need to work on once you've finished.

- Note that you were told of the need to record changes that were made and why they had to be made. So most of the hard work is done here. We just have to make it look pretty. ?

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Criterion D draft: Giving a voice to the elderly

Formative

Criterion draft

🕒 Tuesday at 9:00 PM

Students upload a pdf to the dropbox. The pdf is made by downloading the relevant completed pages or their "Grandma Doc" - a template we have been using the entire unit.

The pdf will contain responses to all 4 strands of Criterion D, with the following specifics.

(i) Describe detailed and relevant testing methods, which generate accurate data, to measure the success of the solution

Planning section(copy and paste these questions and provide answers)

How do you plan to test your final app against the success criteria/ design specifications from Crit B?

There is a range of options from user trials (with survey questions) through to performance testing (eg, you, yourself using your app on different OS's and browsers and devices and checking functionality)

What type of data will your testing produce- both qualitative and quantitative?

How are you planning to analyse the collected data?

If other people were involved - Who did you test your app on? Why were they chosen?

Presentation section

Provide full details of the testing method, including questions, materials and method(s) used

- include original survey questions, if used. Copy and pasted screen shots will suffice.

Include raw data collected from the tests

(ii) Explain the success of the solution against the design specification

Present the analysed data from your testing in (i). Graphs, summary tables etc.

Clearly record the results of the testing against your design specification/success criteria. This is totally objective. Keep this painless -Simply make some column additions to your table from Criterion B.

Provide a summary or concluding statement on the success of your app based on what you have just presented. State the strengths and weaknesses/limitations of your app that have been uncovered.

(iii) Describe how the solution could be improved

You've identified the weaknesses/limitations of your app in (ii). Now it's time to describe how these could be overcome.

From your SWOT analysis you also know about the "OPPORTUNITIES for further development" evaluation angle. Now is your chance to try this with your own app.

- State the items from your 'could' list in your design specs in Crit B that would be the most worthy of inclusion

Presentation

Format is totally up to you - LOOM video (not just talking to your screen though), tables, text with dots points/sections, sketches etc.

(iv) Describe the impact of the solution on the client/target audience

Go back and re-read your Crit A (problem & design brief) Crit B (design specs/success criteria) and your evaluation in the first part of this criterion.

In a paragraph or two, attempt to describe the impact of your app on your target audience, considering

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the problem your design set out to address. These questions will help structure you answer:

- To what extent has your app solved the problem for your target audience?
- To what extent does your app actually improve the situation of your target audience?

Your description here should be realistic and not an exaggeration. You cannot say your app will have a massive, "asteroid that killed the dinosaurs" type of impact if it only works on Samsung Galaxy S3 tablets held in portrait mode, using the Chrome browser and only when connected to the internet ?



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Final Design Portfolio: Giving a voice to the elderly

Summative Report Sunday at 9:00 PM

Final Submission Instructions

1. Use the 4 Google Slide templates provided through Google Classrooms to complete your Design Portfolio for this project. Full instructions on how to transfer your draft work across to the template can be found in the speaker notes for the individual slides.

Crit A: <https://classroom.google.com/c...> (delete the extra blank slides at the end for Crit B)

Crit B: <https://classroom.google.com/c...>

Crit C: <https://classroom.google.com/c...>

Crit D: <https://classroom.google.com/c...>

2. Download your 4 completed docs in pptx (powerpoint) format. Upload these 4 documents to the dropbox for this task. No zipping required.

3. Download the mock-up of your app (Crit B (iv)) as a powerpoint and upload to the dropbox.

4. If your final product is a webpage, save as a zip file.

* If your final product is hosted on GitHub, use the clone/download button.

* If you are working on your app locally, zip together at the parent file level.

5. If your final product is a ppt, simply upload the file.

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MAR
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Criterion A draft: Giving a voice to the elderly

Formative Project 🕒 Thursday at 11:30 PM

Students will submit a **pdf** of the Google Classroom Google Slide Document they have been working on at home and during class over the first 5 weeks of this unit.

The purpose of this submission is for the teacher to check on student progress and provide feedback to support student understanding of the Design Cycle and its effective use in this project.

Notes

Teacher has provided a Google Doc framework, mind map diagrams and mini-tasks as scaffolding to aid completion of this draft. See Google Classroom for specific details.

Basic programming skills have been developed through teacher provided starting code and related problem solving and research activities.

SUBMISSION DETAILS

Strand (i) Problem and need an identification and justification

responses for Google Slide prompts

Strand (ii) Planning research

screenshot of mindmap
partial completion of the teacher provided research planning table

Strand (iii) Analysis of existing products

for at least 4 existing products

- completion of the teacher provided *attribute listing* table
- completion of a SWOT analysis (not much T is expected)

Strand (iv) Design Brief

Part 1

a short, concise summary of the research that has answered the main research questions identified in strands (i) and (ii). Subheadings to organise the research and correct MLA citation to be used.

Part 2

A design brief which states

- what you are making
- why you are making it (purpose)
- when you plan to start and finish making your product (after tweaking from testing & evaluation)
- your target audience
- general details about the product as a result of your thorough research
 - basic functioning
 - the programming language being used
 - if basic frameworks will be used or if most of the code will be unique or if you are undecided at this stage
 - the device types that your product should be compatible with*
 - the web browsers that your product should be compatible with*

*These are actually part of your Design Specifications for Crit B. Included here to focus the skills development work with coding.

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MAR

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Criterion B draft: Giving a voice to the elderly

Formative Task Sunday at 9:00 PM

Submission Details

We should all be getting very good at this. ?

Upload a pdf version of your Crit B Google Slides template that you have been working on. Strands included in this submission:

Strand (i) as per the Google Classrooms published template about your success criteria/design specifications

Strand (ii) as per the Google Classrooms published template about your pictures of the sketches of your ideas

Strand (ii) as per the Google Classrooms published template about the table that contains your menu items and categories

Strand (iii) as per the Google Classrooms instructions - a check against your design specs/success criteria

Strand (iv) does not have to be submitted yet

APR

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Crit B (iv) Mock up of your chosen design

Formative Project Thursday at 9:00 PM

You will find a Google Slides template for your mock up + more information on this task in GC <https://classroom.google.com/u...>

Video help here <https://www.useloom.com/share/...>

Your mock up must

show the button layout on each page of your app

show the interactivity/functionality for your app (when you click a button, make it go to where it is supposed to take you)

indicate the audio information as the audio itself cannot be included in Google Slide. Do this by annotations on the slide itself, not on the speaker notes

indicate any button animations etc (annotate on slide)

indicate how your app will be designed to be responsive to different device screen sizes and orientations.

Upload a pdf version of your mock-up to the dropbox for this activity. Don't worry, the interactivity of your app will remain.

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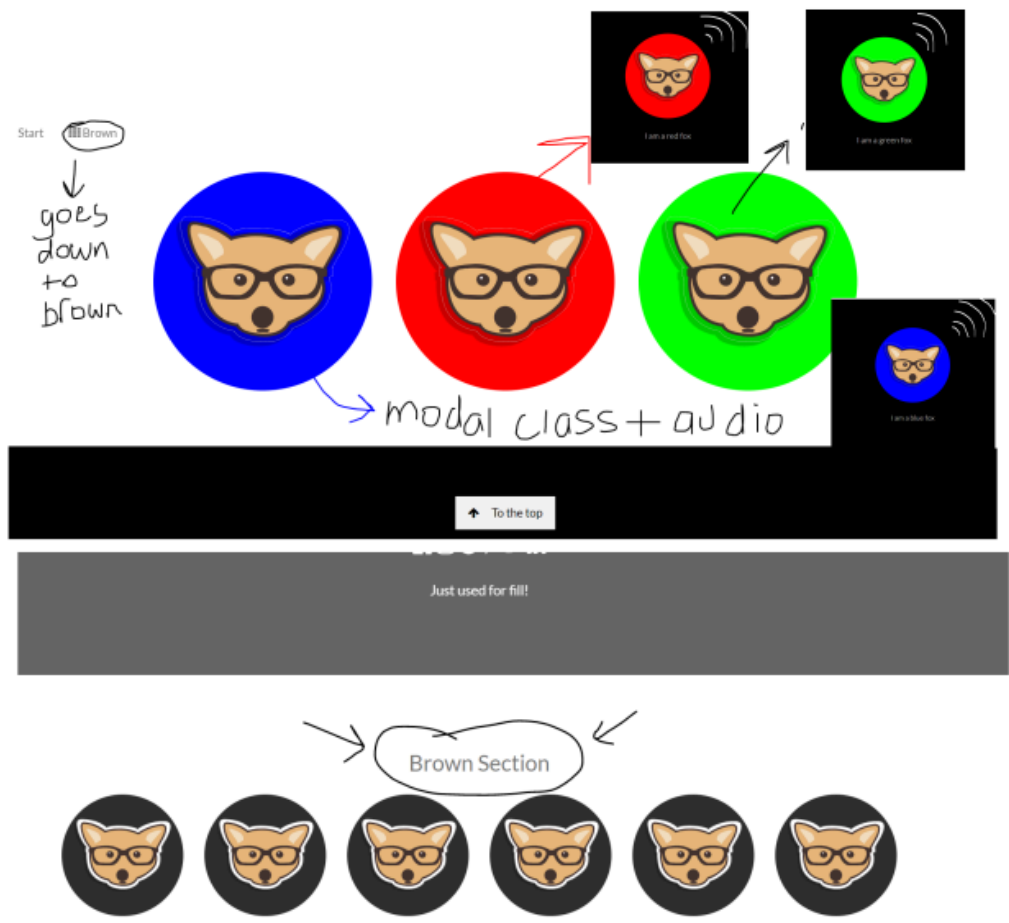
APR
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Coding Skills Check to support Crit C (ii)

Formative Quiz Sunday at 3:00 PM

1. Students are to unzip provided folder and tweak the code to make the following

G7_Design_2019_coding_formative_starter.zip Apr 28, 2019



2. LOOM video of product in operation <https://www.loom.com/share/975...>

3. Students make a zip file of their solution and upload to the task dropbox

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Criterion C draft: Giving a voice to the elderly

Summative Report Saturday at 9:00 PM

Submission Details

Based on completion of the Crit C Google Slides template shared through Google Classroom on April 14

Strand (i): "Construct a logical plan, which outlines the efficient use of time and resources, sufficient for peers to be able to follow to create the solution"
 - this is the slippage chart that was included in the Crit C Google Doc template.

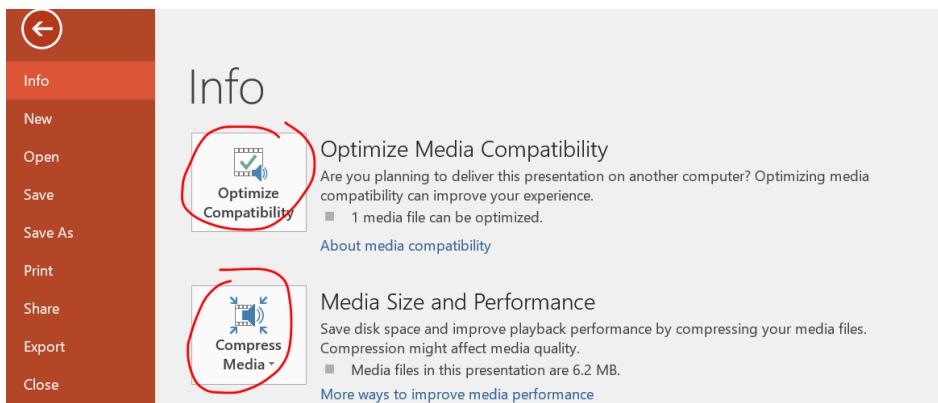
2. Strand (ii): "Show you have the skills to pay the bills". No submission required- formative in class has ✓ this

3. Strand (iii): "Follow the plan to make a solution". This is simply your app and a LOOM video showing it in operation.

a. If coded product - upload a zipped file/folder containing your webpage and resources. Upload to the dropbox for this task.

Name your main page **index.html**. Teacher should be able to unzip this this folder, open up *index.html*, and BAM!! ? your fully functioning app will appear.

b. If slide show - upload your complete POWERPOINT (with all media included) to the dropbox. Optimize your media before saving to minimize the file size (see below).



If you cannot include the audio media as part of your ppt file, then zip all your audio files together and upload that. We'll have to sort out the problem before the final submission though ?

c. Make a narrated LOOM video showing the basic functioning of your app. Paste the link to the video in your Crit C template. This also acts as a fail-safe in case your uploaded files do not work.



For the final submission you'll have to host your product on GitHub (coding) or OneDrive (ppt)

4. Strand (iv): "Justify changes you made on your long and winding journey from final idea to product"

Note that you were told of the need to record changes that you made and why they had to be made ... so most of the hard work is done here.

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Simply make a LOOM video to explain all these changes. Make sure you have a structure to your video and that you refer back to your mock-up in Crit B (iv). Past the link to the video in your Crit C template.

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MAY
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Criterion D draft: Giving a voice to the elderly

Formative Project 🕒 Thursday at 9:00 PM

Students upload a pdf to the dropbox. The pdf is made by downloading their Crit D template Google Slides template (from Google Classroom).

The pdf will contain responses to all 4 strands of Criterion D, with the following specifics (as provided in the template speaker notes).

(i) Describe detailed and relevant testing methods, which generate accurate data, to measure the success of the solution

Planning section(copy and paste these questions and provide answers)

How do you plan to test your final app against the success criteria/ design specifications from Crit B?
 There is a range of options from user trials (with survey questions) through to performance testing (eg, you, yourself using your app on different OS's and browsers and devices and checking functionality)
 What type of data will your testing produce- both qualitative and quantitative?
 How are you planning to analyse the collected data?
 If other people were involved - Who did you test your app on? Why were they chosen?

Presentation section

Provide full details of the testing method, including questions, materials and method(s) used

- include original survey questions, if used. Copy and pasted screen shots will suffice.

Include raw data collected from the tests

(ii) Explain the success of the solution against the design specification

Present the analysed data from your testing in (i). Graphs, summary tables etc.
 Clearly record the results of the testing against your design specification/success criteria. This is totally objective. Keep this painless -Simply make some column additions to your table from Criterion B.
 Provide a summary or concluding statement on the success of your app based on the results of testing (presented earlier).
 State the strengths and weaknesses/limitations of your app that have been uncovered.

(iii) Describe how the solution could be improved

You've identified the weaknesses/limitations of your app in (ii). Now it's time to describe how these could be overcome.
 From your SWOT analysis you also know about the "OPPORTUNITIES for further development" evaluation angle. Now is your chance to try this with your own app.

- State the items from your 'could' list in your design specs in Crit B that would be the most worthy of inclusion

Presentation

Format is totally up to you - LOOM video (not just talking to your screen though), tables, text with dots points/sections, sketches etc.

(iv) Describe the impact of the solution on the client/target audience

Go back and re-read your Crit A (problem & design brief) Crit B (design specs/success criteria) and your evaluation in the first part of this criterion.

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In a paragraph or two, attempt to describe the impact of your app on your target audience, considering the problem your design set out to address. These questions will help structure your answer:

- To what extent has your app solved the problem for your target audience?
- To what extent does your app actually improve the situation of your target audience?

Your description here should be realistic and not an exaggeration. You cannot say your app will have a massive, "asteroid that killed the dinosaurs" type of impact if it only works on Samsung Galaxy S3 tablets held in portrait mode, using the Chrome browser and only when connected to the internet ?



Giving a voice to the elderly



Final Submission: Giving a Voice to the Elderly

Summative Report ⌚ Friday at 9:00 PM

Final Submission Instructions

4 x CRITERIA PDF's

1. Complete the 4 Google Slide templates provided through Google Classrooms to complete your Design Portfolio for this project.

You have had the opportunity to submit the draft versions of your 4 criteria (here in Mbac) in order to receive feedback and act on it to improve the quality of your final submission.

If deadlines have not been met, you have also been given time in class to seek support from the teacher in order to improve the standard of your final submission.

2. Download your 4 completed docs in **PDF format**. Upload these 4 documents to the dropbox for this task. No zipping required.

3. Download the mock-up of your app (Crit B (iv)) in PDF format and upload to the **dropbox**. Name this pdf " your name_mockup.pdf"

FINAL PRODUCT

1.. If your final product is a webpage, save as a zip file and attach to the dropbox. Test that you can unzip the file and the app works BEFORE uploading to the dropbox.

- If you have been able to upload your product to GitHub, then a link to your product should ALSO be included in your Crit C pdf (as per template instructions)

2. If your final product is a ppt, simply upload the file, in powerpoint format.

CURRICULUM

MYP Objectives

- **A: Inquiring and analysing**
 - i. explain and justify the need for a solution to a problem
 - ii. construct a research plan, which states and prioritizes the primary and secondary research needed to develop a solution to the problem
 - iii. analyse a group of similar products that inspire a solution to the problem
 - iv. develop a design brief, which presents the analysis of relevant research
- **B: Developing ideas**
 - i. develop a design specification, which outlines the success criteria for the design of a solution based on the data collected
 - ii. present a range of feasible design ideas, which can be correctly interpreted by others
 - iii. present the chosen design and outline the reasons for its selection

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iv. develop accurate planning drawings/diagrams and outline requirements for the creation of the chosen solution.

- **C: Creating the solution**

- i. construct a logical plan, which outlines the efficient use of time and resources, sufficient for peers to be able to follow to create the solution
- ii. demonstrate excellent technical skills when making the solution
- iii. follow the plan to create the solution, which functions as intended
- iv. explain changes made to the chosen design and plan when making the solution.

- **D: Evaluating**

- i. describe detailed and relevant testing methods, which generate accurate data, to measure the success of the solution
- ii. explain the success of the solution against the design specification
- iii. describe how the solution could be improved
- iv. describe the impact of the solution on the client/target audience.

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ASSESSMENT

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Tasks

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OCT

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Criterion A draft: Giving a voice to the elderly

Formative

Criterion draft

🕒 Thursday at 9:00 PM

Students will submit a **pdf** of the Google Document they have been working on at home and during class over the first 6 weeks of this unit.

The purpose of this submission is for the teacher to check on student progress and provide feedback to support student understanding of the Design Cycle and its effective use in this project.

Notes

- Teacher has provided a Google Doc framework, mind map diagrams and mini-tasks as scaffolding to aid completion of this draft. See Google Classroom for specific details.
- Basic programming skills have been developed through teacher provided starting code and related problem solving and research activities.

SUBMISSION DETAILS

- One pdf which contains
 - only the Criterion A part of the Google Doc template you have been working on. This will include responses to strands (i), (iii) and (iv) of this criterion
- Three separate pdf's which contains
 - research planning table for strand (ii)
 - attributes table for strand (iii)
 - research notes (this will be an appendix in the final design portfolio) for strand (iv)
- Brief notes/dot points are totally OK at this stage. Your work will be put together more beautifully in your final portfolio!

Strand (i) Problem and need an identification and justification

- notes on your research on the problem of speech loss in the elderly, referencing all sources of information
- notes on the importance of the need for a solution to speech loss in the elderly, referencing all sources of information

Strand (ii) Planning research

- partial completion of the teacher provided research planning table

Strand (iii) Analysis of existing products

- for at least 4 existing products
 - completion of the teacher provided *attribute listing* table
 - completion of a SWOT analysis (not much T is expected)

Strand (iv) Design Brief

Part 1

- a short, concise summary of the research that has answered the main research questions identified in strands (i) and (ii). Subheadings to organise the research and correct MLA citation to be used.

Part 2

- A design brief which states
 - what you are making
 - why you are making it (purpose)
 - when you plan to start and finish making your product (after tweaking from testing & evaluation)
 - your target audience
 - general details about the product as a result of your thorough research
 - basic functioning
 - the programming language being used

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- if basic frameworks will be used or if most of the code will be unique or if you are undecided at this stage
- the device types that your product should be compatible with*
- the web browsers that your product should be compatible with*

*These are actually part of your Design Specifications for Crit B. Included here to focus the skills development work with coding.

Part 3

- brief 'research notes' that have been collected as a result of following the research planning table.
 - Use MLA citation format
 - This is submitted as a separate pdf.

N/A A: Inquiring and analysing

N/A B: Developing ideas

N/A C: Creating the solution

N/A D: Evaluating

NOV

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Criterion B draft: Giving a voice to the elderly

Formative

Criterion draft

🕒 Thursday at 9:00 PM

Submission Details

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Upload a pdf of only the Crit B section of your "Grandma Doc", which includes

- Strand (i) as per the Google Classrooms published template about your success criteria/design specifications
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- Strand (ii) as per the Google Classrooms published template about the table that contains your menu items and categories
- Strand (iii) as per the Google Classrooms instructions
- Strand (iv) as a LINK to your awesome Google Slides mock up of your final app design choice.

N/A A: Inquiring and analysing

N/A B: Developing ideas

N/A C: Creating the solution

N/A D: Evaluating

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22 **Crit C - programming skills check**
Formative Quiz Thursday at 3:00 PM

IN CLASS SOLO TASK

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Instructions and all files attached.

Dropbox should be full by the end of the day

NOV
29 **Criterion C draft: Giving a voice to the elderly**
Formative Criterion draft Thursday at 9:00 PM

This formative deadline is designed to attempt to keep you on "track". If you need the final weekend to work on it, then no problem.

Submission Details

1. Strand (i): "Construct a logical plan, which outlines the efficient use of time and resources, sufficient for peers to be able to follow to create the solution"
 - this is your slippage chart (see pdf of template attached). Export your Google Doc as a pdf and upload to dropbox.
2. Strand (ii): "Show you have the skills to pay the bills". No submission required- formative in class has ✓ this
3. Strand (iii): "Follow the plan to make a solution". This is your app ?
 - a. If coded product - upload a zipped file with your webpage inside. Name the master html file *index.html*, so I know which one to open.
 - b. If slide show - download as a ppt and upload to dropbox. If you cannot include the audio media as part of your ppt file, then zip all your audio files together and upload that ?
4. Strand (iv): "Justify changes you made on your long and winding journey from final idea to product"
 - Not part of the submission, but it will be the first thing you'll need to work on once you've finished.
 - Note that you were told of the need to record changes that were made and why they had to be made. So most of the hard work is done here. We just have to make it look pretty. ?

N/A A: Inquiring and analysing

N/A B: Developing ideas

N/A C: Creating the solution

N/A D: Evaluating

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DEC

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Criterion D draft: Giving a voice to the elderly

Formative

Criterion draft

🕒 Tuesday at 9:00 PM

Students upload a pdf to the dropbox. The pdf is made by downloading the relevant completed pages or their "Grandma Doc" - a template we have been using the entire unit.

The pdf will contain responses to all 4 strands of Criterion D, with the following specifics.

(i) Describe detailed and relevant testing methods, which generate accurate data, to measure the success of the solution

Planning section(copy and paste these questions and provide answers)

- How do you plan to test your final app against the success criteria/ design specifications from Crit B? There is a range of options from user trials (with survey questions) through to performance testing (eg, you, yourself using your app on different OS's and browsers and devices and checking functionality)
- What type of data will your testing produce- both qualitative and quantitative?
- How are you planning to analyse the collected data?
- If other people were involved - Who did you test your app on? Why were they chosen?

Presentation section

- Provide full details of the testing method, including questions, materials and method(s) used
 - include original survey questions, if used. Copy and pasted screen shots will suffice.
- Include raw data collected from the tests

(ii) Explain the success of the solution against the design specification

- Present the analysed data from your testing in (i). Graphs, summary tables etc.
- Clearly record the results of the testing against your design specification/success criteria. This is totally objective. Keep this painless -Simply make some column additions to your table from Criterion B.
- Provide a summary or concluding statement on the success of your app based on what you have just presented. State the strengths and weaknesses/limitations of your app that have been uncovered.

(iii) Describe how the solution could be improved

- You've identified the weaknesses/limitations of your app in (ii). Now it's time to describe how these could be overcome.
- From your SWOT analysis you also know about the "OPPORTUNITIES for further development" evaluation angle. Now is your chance to try this with your own app.
 - State the items from your 'could' list in your design specs in Crit B that would be the most worthy of inclusion

Presentation

- Format is totally up to you - LOOM video (not just talking to your screen though), tables, text with dots points/ sections, sketches etc.

(iv) Describe the impact of the solution on the client/target audience

Go back and re-read your Crit A (problem & design brief) Crit B (design specs/success criteria) and your evaluation in the first part of this criterion.

- In a paragraph or two, attempt to describe the impact of your app on your target audience, considering the problem your design set out to address. These questions will help structure your answer:
 - To what extent has your app solved the problem for your target audience?
 - To what extent does your app actually improve the situation of your target audience?

Giving a voice to the elderly

Your description here should be realistic and not an exaggeration. You cannot say your app will have a massive, "asteroid that killed the dinosaurs" type of impact if it only works on Samsung Galaxy S3 tablets held in portrait mode, using the Chrome browser and only when connected to the internet ?



N/A A: Inquiring and analysing

N/A B: Developing ideas

N/A C: Creating the solution

N/A D: Evaluating

Giving a voice to the elderly

JAN

13

Final Design Portfolio: Giving a voice to the elderly

Summative

Report

🕒 Sunday at 9:00 PM

Final Submission Instructions

1. Use the 4 Google Slide templates provided through Google Classrooms to complete your Design Portfolio for this project. Full instructions on how to transfer your draft work across to the template can be found in the speaker notes for the individual slides.

Crit A: <https://classroom.google.com/c...> (delete the extra blank slides at the end for Crit B)

Crit B: <https://classroom.google.com/c...>

Crit C: <https://classroom.google.com/c...>

Crit D: <https://classroom.google.com/c...>

2. Download your 4 completed docs in pptx (powerpoint) format. Upload these 4 documents to the dropbox for this task. No zipping required.

3. Download the mock-up of your app (Crit B (iv)) as a powerpoint and upload to the dropbox.

4. If your final product is a webpage, save as a zip file.

* If your final product is hosted on GitHub, use the clone/download button.

* If you are working on your app locally, zip together at the parent file level.

5. If your final product is a ppt, simply upload the file.

5/8 A: Inquiring and analysing

4/8 B: Developing ideas

5/8 C: Creating the solution

4/8 D: Evaluating

Giving a voice to the elderly

MAR

7

Criterion A draft: Giving a voice to the elderly

Formative

Project

🕒 Thursday at 11:30 PM

Students will submit a **pdf** of the Google Classroom Google Slide Document they have been working on at home and during class over the first 5 weeks of this unit.

The purpose of this submission is for the teacher to check on student progress and provide feedback to support student understanding of the Design Cycle and its effective use in this project.

Notes

- Teacher has provided a Google Doc framework, mind map diagrams and mini-tasks as scaffolding to aid completion of this draft. See Google Classroom for specific details.
- Basic programming skills have been developed through teacher provided starting code and related problem solving and research activities.

SUBMISSION DETAILS**Strand (i) Problem and need an identification and justification**

- responses for Google Slide prompts

Strand (ii) Planning research

- screenshot of mindmap
- partial completion of the teacher provided research planning table

Strand (iii) Analysis of existing products

- for at least 4 existing products
 - completion of the teacher provided *attribute listing* table
 - completion of a SWOT analysis (not much T is expected)

Strand (iv) Design Brief

Part 1

- a short, concise summary of the research that has answered the main research questions identified in strands (i) and (ii). Subheadings to organise the research and correct MLA citation to be used.

Part 2

- A design brief which states
 - what you are making
 - why you are making it (purpose)
 - when you plan to start and finish making your product (after tweaking from testing & evaluation)
 - your target audience
 - general details about the product as a result of your thorough research
 - basic functioning
 - the programming language being used
 - if basic frameworks will be used or if most of the code will be unique or if you are undecided at this stage
 - the device types that your product should be compatible with*
 - the web browsers that your product should be compatible with*

*These are actually part of your Design Specifications for Crit B. Included here to focus the skills development work with coding.

N/A



A: Inquiring and analysing

N/A



B: Developing ideas

Giving a voice to the elderly

N/A C: Creating the solution

N/A D: Evaluating

MAR
24

Criterion B draft: Giving a voice to the elderly

Formative Task Sunday at 9:00 PM

Submission Details

We should all be getting very good at this. ?

Upload a pdf version of your Crit B Google Slides template that you have been working on. Strands included in this submission:

- Strand (i) as per the Google Classrooms published template about your success criteria/design specifications
- Strand (ii) as per the Google Classrooms published template about your pictures of the sketches of your ideas
- Strand (ii) as per the Google Classrooms published template about the table that contains your menu items and categories
- Strand (iii) as per the Google Classrooms instructions - a check against your design specs/success criteria
- **Strand (iv) does not have to be submitted yet**

N/A A: Inquiring and analysing

N/A B: Developing ideas

N/A C: Creating the solution

N/A D: Evaluating

APR
4

Crit B (iv) Mock up of your chosen design

Formative Project Thursday at 9:00 PM

You will find a Google Slides template for your mock up + more information on this task in GC <https://classroom.google.com/u...>

Video help here <https://www.useloom.com/share/...>

Your mock up must

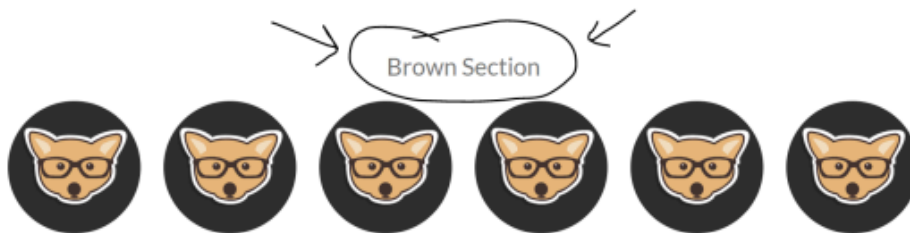
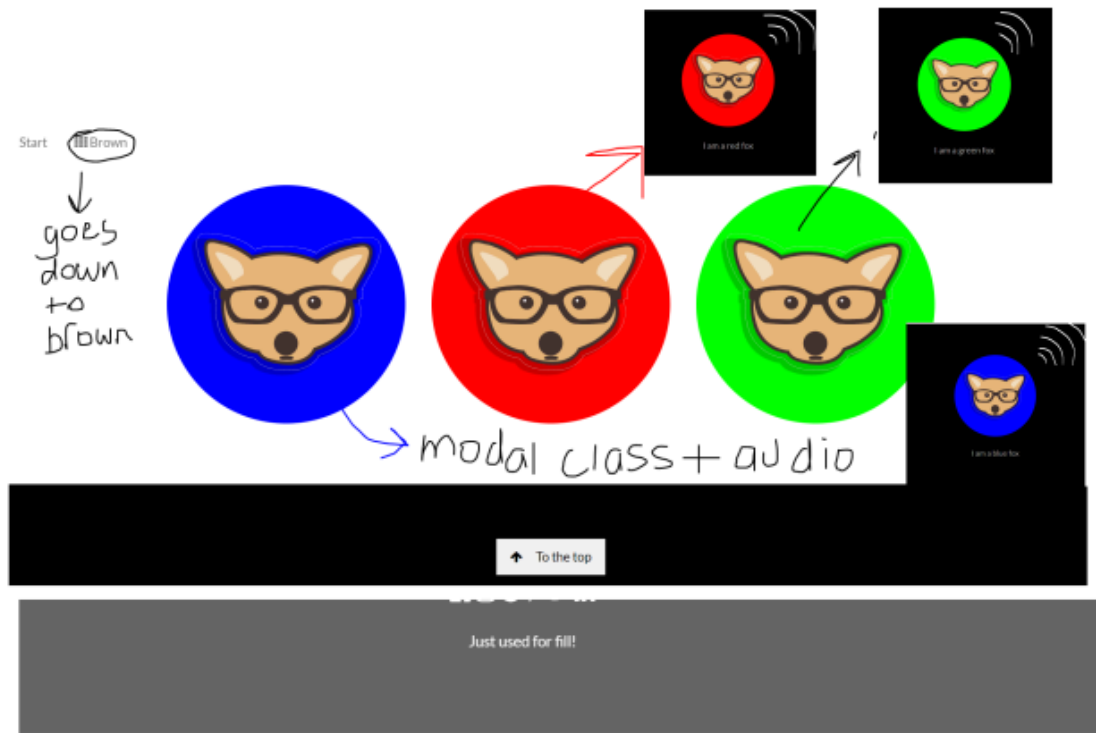
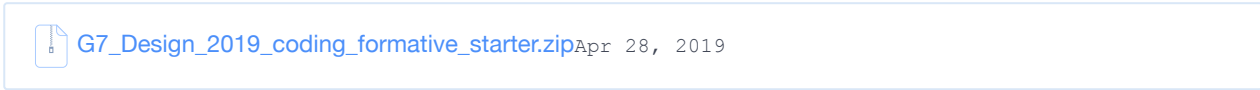
- show the button layout on each page of your app
- show the interactivity/functionality for your app (when you click a button, make it go to where it is supposed to take you)
- indicate the audio information as the audio itself cannot be included in Google Slide. Do this by annotations on the slide itself, not on the speaker notes
- indicate any button animations etc (annotate on slide)
- indicate how your app will be designed to be responsive to different device screen sizes and orientations.

Upload a pdf version of your mock-up to the dropbox for this activity. Don't worry, the interactivity of your app will remain.

Giving a voice to the elderly

APR
28
Coding Skills Check to support Crit C (ii)
Formative Quiz Sunday at 3:00 PM

1. Students are to unzip provided folder and tweak the code to make the following



2. LOOM video of product in operation <https://www.loom.com/share/975...>

3. Students make a zip file of their solution and upload to the task dropbox

Max Points: 8

Giving a voice to the elderly

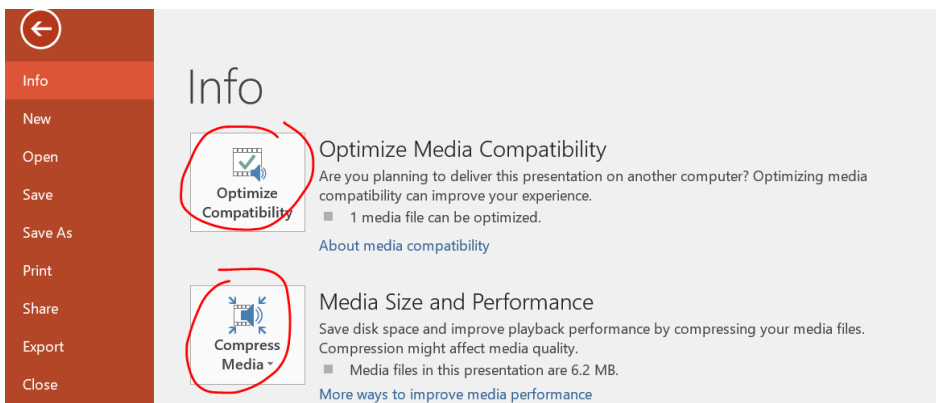
MAY
11
Criterion C draft: Giving a voice to the elderly
 Summative Report ⌚ Saturday at 9:00 PM

Submission Details

Based on completion of the Crit C Google Slides template shared through Google Classroom on April 14

1. Strand (i): "Construct a logical plan, which outlines the efficient use of time and resources, sufficient for peers to be able to follow to create the solution"
 - this is the slippage chart that was included in the Crit C Google Doc template.
2. Strand (ii): "Show you have the skills to pay the bills". No submission required- formative in class has ✓ this
3. Strand (iii): "Follow the plan to make a solution". This is simply your app and a LOOM video showing it in operation.
 - a. If coded product - upload a zipped file/folder containing your webpage and resources. Upload to the dropbox for this task.

 Name your main page **index.html**. Teacher should be able to unzip this this folder, open up *index.html*, and BAM!! ? your fully functioning app will appear.
 - b. If slide show - upload your complete POWERPOINT (with all media included) to the dropbox. Optimize your media before saving to minimize the file size (see below).



If you cannot include the audio media as part of your ppt file, then zip all your audio files together and upload that. We'll have to sort out the problem before the final submission though ?

- c. Make a narrated LOOM video showing the basic functioning of your app. Paste the link to the video in your Crit C template. This also acts as a fail-safe in case your uploaded files do not work.



For the final submission you'll have to host your product on GitHub (coding) or OneDrive (ppt)

4. Strand (iv): "Justify changes you made on your long and winding journey from final idea to product"
- Note that you were told of the need to record changes that you made and why they had to be made ... so most of the hard work is done here.



- Simply make a LOOM video to explain all these changes. Make sure you have a structure to your video and that you refer back to your mock-up in Crit B (iv). Past the link to the video in your Crit C template.

Giving a voice to the elderly

N/A A: Inquiring and analysing

N/A B: Developing ideas

4/8 C: Creating the solution

N/A D: Evaluating

Giving a voice to the elderly

MAY

23

Criterion D draft: Giving a voice to the elderly

Formative

Project

🕒 Thursday at 9:00 PM

Students upload a pdf to the dropbox. The pdf is made by downloading their Crit D template Google Slides template (from Google Classroom).

The pdf will contain responses to all 4 strands of Criterion D, with the following specifics (as provided in the template speaker notes).

(i) Describe detailed and relevant testing methods, which generate accurate data, to measure the success of the solution

Planning section(copy and paste these questions and provide answers)

- How do you plan to test your final app against the success criteria/ design specifications from Crit B? There is a range of options from user trials (with survey questions) through to performance testing (eg, you, yourself using your app on different OS's and browsers and devices and checking functionality)
- What type of data will your testing produce- both qualitative and quantitative?
- How are you planning to analyse the collected data?
- If other people were involved - Who did you test your app on? Why were they chosen?

Presentation section

- Provide full details of the testing method, including questions, materials and method(s) used
 - include original survey questions, if used. Copy and pasted screen shots will suffice.
- Include raw data collected from the tests

(ii) Explain the success of the solution against the design specification

- Present the analysed data from your testing in (i). Graphs, summary tables etc.
- Clearly record the results of the testing against your design specification/success criteria. This is totally objective. Keep this painless -Simply make some column additions to your table from Criterion B.
- Provide a summary or concluding statement on the success of your app based on the results of testing (presented earlier).
- State the strengths and weaknesses/limitations of your app that have been uncovered.

(iii) Describe how the solution could be improved

- You've identified the weaknesses/limitations of your app in (ii). Now it's time to describe how these could be overcome.
- From your SWOT analysis you also know about the "OPPORTUNITIES for further development" evaluation angle. Now is your chance to try this with your own app.
 - State the items from your 'could' list in your design specs in Crit B that would be the most worthy of inclusion

Presentation

- Format is totally up to you - LOOM video (not just talking to your screen though), tables, text with dots points/ sections, sketches etc.

(iv) Describe the impact of the solution on the client/target audience

Go back and re-read your Crit A (problem & design brief) Crit B (design specs/success criteria) and your evaluation in the first part of this criterion.

- In a paragraph or two, attempt to describe the impact of your app on your target audience, considering the problem your design set out to address. These questions will help structure your answer:
 - To what extent has your app solved the problem for your target audience?
 - To what extent does your app actually improve the situation of your target audience?

Giving a voice to the elderly

Your description here should be realistic and not an exaggeration. You cannot say your app will have a massive, "asteroid that killed the dinosaurs" type of impact if it only works on Samsung Galaxy S3 tablets held in portrait mode, using the Chrome browser and only when connected to the internet ?



N/A A: Inquiring and analysing

N/A B: Developing ideas

N/A C: Creating the solution

N/A D: Evaluating

Giving a voice to the elderly

MAY

31

Final Submission: Giving a Voice to the Elderly

Summative

Report

🕒 Friday at 9:00 PM

Final Submission Instructions

4 x CRITERIA PDF's

1. Complete the 4 Google Slide templates provided through Google Classrooms to complete your Design Portfolio for this project.

You have had the opportunity to submit the draft versions of your 4 criteria (here in Mbac) in order to receive feedback and act on it to improve the quality of your final submission.

If deadlines have not been met, you have also been given time in class to seek support from the teacher in order to improve the standard of your final submission.

2. Download your 4 completed docs in **PDF format**. Upload these 4 documents to the dropbox for this task. No zipping required.

3. Download the mock-up of your app (Crit B (iv)) in PDF format and upload to the **dropbox**. Name this pdf " your name_mockup.pdf"

FINAL PRODUCT

1.. If your final product is a webpage, save as a zip file and attach to the dropbox. Test that you can unzip the file and the app works BEFORE uploading to the dropbox.

- If you have been able to upload your product to GitHub, then a link to your product should ALSO be included in your Crit C pdf (as per template instructions)

2. If your final product is a ppt, simply upload the file, in powerpoint format.

4/8 A: Inquiring and analysing

3/8 B: Developing ideas


4/8 C: Creating the solution

3/8 D: Evaluating


Giving a voice to the elderly

MYP Assessment criteria

Design

 A: Inquiring and analysing

 B: Developing ideas

 C: Creating the solution

 D: Evaluating

* - Class mean of Assessed Criteria

LEARNING EXPERIENCES

Learning experiences

REFLECTIONS

2018 - 2019