**Evaluation of Digital Solution**

**Technological Effect on Sleep and Learning Behaviour’s**

By Lachlan Harrison

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| **Measure:** | **Evaluation Criteria:** | **Evaluation Strategy:** | **Response:** |
| Cost | Does the secondary data collected cost no money to acquire? | Check all the data taken to see if any money was used | All the data collected was checked, before acquired, to make sure no money was used for the purchase of the right to read it, making sure all of it was free |
| Readability | Is the font choice easy to interpret? | Ask 5 people to read through as much of the infographic as they can within a limited time. Ask them their thoughts on the font choice | All 5 people who read through the infographic, when asked said the font choice was good and that it was quite easy to read |
| Readability | Is the infographic easy to understand and make sense out of? | Ask 5 people to read through the first couple paragraphs. Ask them what they learnt, to see whether it’s easy to make sense of | The 5 people who read through the infographic were easily able to understand what they read, as it made sense. It also |
| Attractiveness | Does the chosen colour theme of the infographic help keep the reader focused? | Ask 5 people to read through the infographic. Watch to see if the colour theme helps keep their attention | The 5 people who read through didn’t seem to have trouble through the majority of the infographic. They had struggle keeping focussed in a couple areas, which they later commented on stating “it was hard to see” and disrupting their foucs |
| Attractiveness | Is the infographic easy for the reader to navigate through? | Ask 5 people to read through the infographic, watch to see if they can work out where to start and end | All 5 people were easily able to figure out where to begin and finish the infographic, as the completed version of the infographic made it very easy for the 5 readers to figure this out |
| Accuracy | Is all the information/data used through the infographic accurate? | Check through all the inputted data, and check whether it is considered accurate | The data inputted is seen as accurate, as it was taken through primary research completed in the form of a questionnaire. The questions from this questionnaire were reliable responses and were used for the data visualisations |
| Accuracy | Is all the information/data used throughout the infographic from trusted sources? | Check through the sources and see whether they come from sources that are trustworthy | The infographic utilised trusted sources for all the data acquired from medical or government websites where everything is seen as trustworthy |
| Relevance | Is all the information within the infographic relevant to the research question? | Block out the research question and ask 5 people to guess what the research question is based on the rest of the infographic | The participants didn’t guess the research question word for word, but all participants were quite close with the overall research question |
| Relevance | Do all the data visualisations relate to the topic and information? | Ask 5 people to rate whether the data visualisations suit the information/topic | Yes, the 5 readers believed that all of the data visualisations were very relevant towards the overall topic and information within the infographic |
| Communication of Message | Are the data visualisations easy to understand and clear to the reader? | Ask 5 people to look through the data visualisations. Watch to see if they have any trouble reading through | Four of the participants completed reading through the data visualisation in a timely manner, taking only around 5 minutes to get through infographic. The last participant who took longer than 5 minutes took time to read through the overall infographic an took between 5 and 10 minutes |
| Time | Will the infographic be finished in the required time frame? | Check to see if the infographic will be completed in time | The infographic was completed before the due date, of Friday the 9th of August. |
| Usability | Does it take limited effort for the reader to navigate throughout the infographic? | Ask 5 people to read through parts of the infographic, and time how long it takes | Yes, the 5 readers took limited effort to work their way through the infographic, taking only around 5 minutes for the majority of them |

Overall Evaluation:

The overall infographic was quite easy for the 5 readers to read through, with limited struggles. Changes that could be made if a similar infographic was made again later, colours that contrast more would probably be more preferable, as it would allow the graphs and help the overall aesthetic of the digital solution. The colours scheme, while looking good could definitely use changes, mainly with the colours used for the graphs as they don’t stand out enough in certain areas. Other than the colours scheme the overall design of the infographic is quite good and was easy for the 5 readers to read through and navigate as they were able to easily identify the correct reading path, as well as taking a good amount of time on average to read through the text (around 5-10 minutes).

Evaluation of Digital Solution:

Key:

Whether the requirement has been reached

Where the requirement has been shown

Contribution towards efficiency or effectiveness

Functional Requirements:

* The digital solutions include a mix of data types such as text, numbers and digital graphics

The digital solution includes a wide variety of different data types, showcasing text, numbers, and digital graphics. This is shown throughout the infographic, with 9 graphs, 10 bodies of text and with the use of 13 images. The wide range of data types provides an easy-to-understand design for people with all sorts of different learning styles. The use of the different data types is used for the **communication of the infographics message**.

* Data that is complex and doesn’t make sense is made easy to understand

The digital solution converts complex data into easily understandable data. This is shown through all of the data visualisations within the infographic, where the complex data is simplified and made easy to understand. The simplification of the complex data to make it easier to understand, promotes **usability** within the infographic as the simplified data is easier to interpret and comprehend.

* Digital solution will include a range of digital charts

The digital solution utilises a wind range of digital chart types throughout. Placed all over the infographic are different types of digital charts with 2x pie charts, 1 x donut chart, 5x bar charts and 1 x line chart. The use of a wide range of digital charts within the infographic allows for a more **attractive** design within the infographic, as the varying looks of the graphs as well as the different data types creates a more appealing design.

Non-Functional Requirements:

* All data visualisations must be relevant to the research question and as accurate as possible

All data visualisations within the infographic are accurate and are very relevant towards the research question that was created. The data visualisations are spread throughout the infographic, in the form of the various graphs present all around the infographic. The use of the data visualisations that relate to the infographic is to provide data that is **relevant** throughout the entirety of the infographic.

* Data that is being used should be recent (2014-2024)

The data used towards the data visualisations within the infographic is considered due to it being from between 2014 and 2024. This data is used throughout all of the data visualisations, that are scattered throughout the infographic. The recentness allows the data to be considered **accurate** due to all of the data being collected from no later than 2014. Only data that is considered recent was used towards the infographic

* The infographic will incorporate a range of colours and designs that make it look aesthetically pleasing

Within the infographic a wide range of colours is used throughout the design to help it seem aesthetically pleasing. The range of colours is present all throughout the infographic, with purple, pink, red, orange, yellow, white and a small amount of black. The use of all of these colours that are present within the infographic helps the infographic to make it seem more **attractive** and appealing towards readers.